94-05-16 15:00

DRINKING WATER SURVEILLANCE PROGRAM

GUELPH WELL SUPPLY

REPORT FOR 1991 AND 1992

Ontario

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GUELPH WELL SUPPLY

DRINKING WATER SURVEILLANCE PROGRAM

REPORT FOR 1991 AND 1992

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

GUELPH WELL SUPPLY
1991 AND 1992 REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to include all municipal supplies in Ontario. In 1991, 96 supplies and in 1992, 109 supplies were being monitored.

The Guelph well supply is a groundwater source consisting of many wells in several aquifers. Raw water is disinfected before distribution. Iron sequestering is practiced at some wells when required. This supply has a maximum pumping capacity of 90.4 x 1000 m^3/day. The Guelph well supply serves a population of approximately 90,000.

Raw water from 22 wells, treated water from 3 reservoirs and 2 locations in the distribution system was sampled for the presence of approximately 180 parameters. Parameters were divided into the following groups: bacteriological, inorganic and physical (laboratory chemistry, field chemistry and metals), organic (chloroaromatics, chlorophenols, pesticides and PCB, phenolics, polyaromatic hydrocarbons and volatiles) and radiological (radionuclides). Most laboratory analyses were conducted at the Ministry of the Environment and Energy facilities in Rexdale, Ontario. Radionuclides were analyzed by the Ministry of Labour.

Table A is a summary of all results by group.

No known health related guidelines were exceeded.

The Guelph well supply, as sampled by DWSP, for the sample years of 1991 and 1992, produced good quality water and this was maintained in the distribution system.

TABLE A
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

	WOODS PUMP RAW			ERAMOSA RIVER RAW			ARKEL SPRING #6 PRETREATED			ARKEL SPRING #7 PRETREATED		
SCAN	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE
BACTERIOLOGICAL	21	12	57	4	4	100	12	1	8	12	0	0
CHEMISTRY (FIELD)	14	14	100	2	2	100	6	6	100	6	6	100
CHEMISTRY (LABORATORY)	169	125	73	47	42	89	72	55	76	94	68	72
METALS	168	49	29	48	15	31	96	34	35	96	30	31
CHLOROAROMATICS	77	0	0	14	0	0	42	0	0	42	0	0
CHLOROPHENOLS	0	0	0	.	.	.	.	.	.	.	.	.
PESTICIDES AND PCB	216	0	0	35	0	0	106	0	0	106	0	0
PHENOLICS	7	0	0	2	0	0	4	0	0	4	0	0
POLYAROMATIC HYDROCARBONS	102	0	0	0	0	0	.	.	.	.	.	.
SPECIFIC PESTICIDES	23	0	0	.	.	.	.	.	.	.	.	.
VOLATILES	203	0	0	60	0	0	120	0	0	120	1	0
RADIONUCLIDES	.	.	.	.	.	.	7	2	28	7	2	28
TOTAL	1,000	200		212	63		465	98		214	107	

TABLE A
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

	ARKEL SPRING #8 PRETREATED			CARTER WELL PRETREATED			CLYTHE WELL PRETREATED			MEMBRO WELL PRETREATED		
SCAN	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE
BACTERIOLOGICAL	9	0	0	12	4	33	12	6	50	1	0	0
CHEMISTRY (FIELD)	6	6	100	6	6	100	6	6	100	.	.	.
CHEMISTRY (LABORATORY)	94	72	76	72	54	75	94	80	85	24	17	70
METALS	73	25	34	73	19	26	96	42	43	24	8	33
CHLOROAROMATICS	42	0	0	42	0	0	42	0	0	0	0	0
PESTICIDES AND PCB	106	0	0	106	0	0	103	0	0	0	0	0
PHENOLICS	4	0	0	4	0	0	4	0	0	1	0	0
POLYAROMATIC HYDROCARBONS	.	.		.	.	.	.	.	.	0	0	0
VOLATILES	120	0	0	120	0	0	120	0	0	29	0	0
RADIONUCLIDES	7	2	28	7	2	28	7	2	28	.	.	.
TOTAL	461	105		442	85		484	136		440	25	

TABLE A
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

	SILVERCREK WELL PRETREATED			PAISLEY WELL RAW			BURKES WELL PRETREATED			CALICO WELL PRETREATED		
SCAN	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE
BACTERIOLOGICAL	12	8	66	27	0	0	9	0	0	12	0	0
CHEMISTRY (FIELD)	6	6	100	18	18	100	8	8	100	6	6	100
CHEMISTRY (LABORATORY)	94	74	78	214	178	83	94	74	78	94	80	85
METALS	73	33	45	216	103	47	96	32	33	96	38	39
CHLOROAROMATICS	42	0	0	112	0	0	28	0	0	28	0	0
CHLOROPHENOLS	.	.	.	6	0	0	.	.	.	.	.	.
PESTICIDES AND PCB	106	0	0	281	0	0	69	0	0	69	0	0
PHENOLICS	4	0	0	9	0	0	4	0	0	4	0	0
POLYAROMATIC HYDROCARBONS	.	.	.	119	0	0	0	0	0	.	.	.
SPECIFIC PESTICIDES	.	.	.	18	0	0	.	.	.	.	.	.
VOLATILES	120	0	0	265	0	0	120	0	0	120	0	0
RADIONUCLIDES	7	2	28									
TOTAL	464	123		1,285	299		428	114		1,285	124	

TABLE A
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

	DOWNEY WELL PRETREATED			HELMAR WELL PRETREAED			PARK WELL PRETREATED			QUEENSDALE WELL PRETREATED		
SCAN	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE
BACTERIOLOGICAL	12	0	0	7	0	0	12	1	8	9	0	0
CHEMISTRY (FIELD)	6	6	100	6	6	100	6	6	100	4	4	100
CHEMISTRY (LABORATORY)	94	72	76	71	61	85	94	70	74	71	60	84
METALS	96	43	44	72	30	41	96	48	50	72	40	55
CHLOROAROMATICS	28	0	0	14	0	0	28	0	0	14	0	0
PESTICIDES AND PCB	69	0	0	34	0	0	69	0	0	34	0	0
PHENOLICS	4	0	0	3	0	0	4	0	0	3	0	0
POLYAROMATIC HYDROCARBONS	.	.	.	0	0	0	.	.	.	.	.	.
VOLATILES	120	0	0	89	0	0	120	0	0	89	1	1
TOTAL	429	121		296	97		429	125		296	105	

TABLE A
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
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SCAN	U OF G WELL RAW TESTS	POSITIVE	%POSITIVE	DEAN WELL PRETREATED TESTS	POSITIVE	%POSITIVE	EDINBURGH WELL PRETREATED TESTS	POSITIVE	%POSITIVE	EMMA ST WELL PRETREATED TESTS	POSITIVE	%POSITIVE
BACTERIOLOGICAL	24	0	0	3	0	0	9	0	0	9	1	11
CHEMISTRY (FIELD)	16	16	100	4	4	100	4	4	100	4	4	100
CHEMISTRY (LABORATORY)	191	150	78	47	37	78	71	58	81	71	57	80
METALS	192	87	45	48	22	45	49	24	48	49	16	32
CHLOROAROMATICS	77	0	0	14	0	0	28	0	0	28	0	0
CHLOROPHENOLS	6	0	0	.	.	.	.	.	.	.	.	.
PESTICIDES AND PCB	202	0	0	36	0	0	70	0	0	72	0	0
PHENOLICS	8	0	0	2	0	0	3	0	0	3	0	0
POLYAROMATIC HYDROCARBONS	85	0	0	0	0	0	.	.	.	.	.	.
SPECIFIC PESTICIDES	28	0	0	.	.	.	.	.	.	.	.	.
VOLATILES	234	0	0	60	2	3	91	6	6	91	0	0
TOTAL	1,063	253		214	65		325	92		214	78	

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DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

SCAN	SACCO WELL PRETREATED TESTS	SACCO WELL PRETREATED POSITIVE	SACCO WELL PRETREATED %POSITIVE	SMALLFIELD WELL PRETREATED TESTS	SMALLFIELD WELL PRETREATED POSITIVE	SMALLFIELD WELL PRETREATED %POSITIVE	WATER ST WELL PRETREATED TESTS	WATER ST WELL PRETREATED POSITIVE	WATER ST WELL PRETREATED %POSITIVE	WOODS PUMP TREATED TESTS	WOODS PUMP TREATED POSITIVE	WOODS PUMP TREATED %POSITIVE
BACTERIOLOGICAL	3	0	0	7	0	0	9	1	11	7	0	0
CHEMISTRY (FIELD)	4	4	100	6	6	100	4	4	100	32	25	78
CHEMISTRY (LABORATORY)	48	40	83	71	58	81	71	60	84	169	124	73
METALS	25	11	44	49	17	34	49	26	53	168	49	29
CHLOROAROMATICS	14	0	0	28	0	0	28	0	0	77	0	0
CHLOROPHENOLS	.	.	.	.	.	.	.	.	.	6	0	0
PESTICIDES AND PCB	36	0	0	70	0	0	72	0	0	216	0	0
PHENOLICS	2	0	0	3	0	0	3	0	0	6	0	0
POLYAROMATIC HYDROCARBONS	0	0	0	0	0	0	.	.	.	102	0	0
SPECIFIC PESTICIDES	.	.	.	.	.	.	.	.	.	29	0	0
VOLATILES	60	7	11	91	5	5	91	2	2	203	22	10
TOTAL	192	62		325	86		327	93		325	220	

TABLE A
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

	PAISLEY WELL TREATED			U OF G WELL TREATED			DIST. SYSTEM VICTORIA RD			DIST. SYSTEM IMPERIAL RD N		
SCAN	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE	TESTS	POSITIVE	%POSITIVE
BACTERIOLOGICAL	9	1	11	8	0	0	8	1	12	11	0	0
CHEMISTRY (FIELD)	45	39	86	40	36	90	74	64	86	85	64	75
CHEMISTRY (LABORATORY)	216	161	74	192	150	78	336	295	87	441	380	86
METALS	216	88	40	192	90	46	368	172	46	483	251	51
CHLOROAROMATICS	112	0	0	77	0	0	63	0	0	112	0	0
CHLOROPHENOLS	6	0	0	6	0	0	.	.	.	.	.	.
PESTICIDES AND PCB	281	0	0	214	0	0	103	0	0	177	0	0
PHENOLICS	9	0	0	8	0	0	.	.	.	.	.	.
POLYAROMATIC HYDROCARBONS	102	0	0	102	0	0	85	0	0	119	0	0
SPECIFIC PESTICIDES	30	0	0	29	0	0	3	0	0	4	0	0
VOLATILES	265	37	13	234	4	1	232	15	6	323	49	15
TOTAL	1,291	326		1,102	280		1,272	547		1,102	744	

DRINKING WATER SURVEILLANCE PROGRAM

GUELPH WELL SUPPLY
1991 AND 1992 REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to include all municipal supplies in Ontario. In 1991, 96 supplies and in 1992, 109 supplies were being monitored.

Appendix A has a full description of the DWSP.

The DWSP was initiated for the Guelph well supply in the summer of 1990. A previous annual report was published for 1990.

PLANT DESCRIPTION

The Guelph well supply is a groundwater source consisting of many wells in several aquifers. Raw water is disinfected before distribution. Iron sequestering is practiced at some wells when required. This supply has a maximum pumping capacity of 90.4 x 1000 m^3/day. The Guelph well supply serves a population of approximately 90,000.

The sample day flows were reported for individual pumping stations and does not represent the total daily pumpage for the supply.

The F.M. Woods pumping station ranged from 13.6 x 1000 m^3/day to 38.8 x 1000 m^3/day.

The Paisley Road well ranged from 2.9 x 1000 m^3/day to 8.5 x 1000 m^3/day.

The University of Guelph pumping station ranged from 1.0 x 1000 m^3/day to 2.2 x 1000 m^3/day.

General information for the water supply is presented in Table 1.

SAMPLING AND ANALYSES

Stringent DWSP sampling protocols were followed to ensure that all samples were collected in a uniform manner (see Appendix B).

Sample lines at the wells and reservoirs were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

Municipal operating personnel routinely analyzed parameters for process control (see Table 2 if data is provided).

At all distribution system locations, two types of samples were obtained, a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service connection for a minimum of six hours. These samples were used to take an assessment of the change in the levels of inorganic compounds and metals due to leaching from, or deposition on, the plumbing system. The only analyses carried out on the standing samples, therefore, were laboratory chemistry and metals. The free flow sample represented fresh water from the distribution system main, since the sample tap was flushed for five minutes prior to sampling.

Raw water from 22 wells, treated water from 3 reservoirs (Woods Pump, Paisley Well, and U of G Well) and 2 locations in the distribution system was sampled for the presence of approximately 180 parameters. Raw water from the Eramosa River was sampled to monitor its effects on the infiltration wells. Parameters were divided into the following groups: bacteriological, inorganic and physical (laboratory chemistry, field chemistry and metals), organic (chloroaromatics, chlorophenols, pesticides and PCB, phenolics, polyaromatic hydrocarbons and volatiles) and radiological (radionuclides). Most laboratory analyses were conducted at the Ministry of the Environment and Energy facilities in Rexdale, Ontario. Radionuclides were analyzed by the Ministry of Labour.

RESULTS

Field measurements were recorded on the day of sampling and were entered onto the DWSP database as submitted by municipal personnel.

Table 3 (when data is provided) contains information on flow rate, and treatment chemical dosages.

Table 4 is a summary of all results by parameter and by water type. If a parameter was not detected, the total number of negative sample results is given. In contrast, if a parameter was detected at any location, the detailed results for all samples are provided.

In Table 4, a "pretreated" sample refers to a raw water sample collected prior to the addition of treatment chemicals where the treated water flows directly into the distribution system and a representative treated water sample could not be obtained.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment and Energy laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on Tables 4 and 5. Parameters are listed alphabetically within each scan.

DISCUSSION

GENERAL

Water quality was judged by comparison with the Ontario Drinking Water Objectives publication (ODWOs). When an Ontario Drinking Water Objective (ODWO) was not available, guidelines/limits from other agencies were used. These guidelines were obtained from the Parameter Listing System database.

The guidelines are evaluated on the results from the free flowing samples. Standing samples in the distribution system can show elevated concentrations in certain metals if the water is corrosive or if the standing time is excessive. Flushing the tap until the water achieves the coolest temperature will ensure that the water used for consumption will contain minimum concentrations of metals.

IN REPORTS FOR GROUND WATER SUPPLIES, WHERE:

- **TREATMENT CAN BE LIMITED TO DISINFECTION;**
- **MANY WELLS CAN FEED INTO THE DISTRIBUTION SYSTEM INDEPENDENTLY; AND**
- **TREATED SAMPLES, WHEN AVAILABLE, ARE TAKEN FROM RESERVOIRS;**

THIS SECTION WILL DISCUSS:

- **RESULTS FROM RAW, PRETREATED, TREATED AND DISTRIBUTED WATERS;**
- **THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES; AND**
- **POSITIVE ORGANIC PARAMETERS DETECTED.**

In this report comments are combined for all sample locations for each parameter discussed. The water in the distribution system can be a mixture from many sources.

BACTERIOLOGICAL

Guidelines for bacteriological sampling and testing of a supply are developed to maintain a proper supervision of its bacteriological quality. Routine monitoring programs usually require that multiple samples be collected in a given system. Full interpretation of bacteriological quality cannot be made on the basis of single samples. Standard plate count was the only bacteriological analysis conducted on the treated and distributed water. No results were above the guideline.

INORGANIC & PHYSICAL

CHEMISTRY (FIELD)

It is desirable that the temperature of drinking water be less than 15°C. The palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of delivered water may increase in the distribution system due to the warming effect of soil in late summer and fall and/or as a result of higher temperatures in the source water.

Field temperature exceeded the ODWO Aesthetic Objective of 15°C in 3 of 91 pretreated, treated and distributed water samples with a maximum reported value of 21.0°C.

CHEMISTRY (LABORATORY)

Calcium exceeded the European Economic Community Aesthetic Guideline Level of 100 mg/L in 46 of 106 pretreated, treated and distributed water samples with a maximum reported value of 144.5 mg/L.

Chloride exceeded the ODWO Aesthetic Objective of 250 mg/L in 1 of 106 pretreated, treated and distributed water samples with a maximum reported value of 409 mg/L.

Colour in drinking water may be due to the presence of natural or synthetic substances as well as certain metallic ions. Colour is measured in Hazen units (HZU).

Colour exceeded the ODWO Aesthetic Objective of 5 HZU in 3 of 106 pretreated, treated and distributed water samples with a maximum reported value of 9.0 HZU.

Elevated conductivity is often associated with high hardness levels.

Conductivity exceeded the European Economic Community Aesthetic Guideline Level of 400 umho/cm in all 106 pretreated, treated and distributed water samples with a maximum reported value of 2,050 umho/cm.

Dissolved organic carbon exceeded the ODWO Aesthetic Objective of 5.0 mg/L in 1 of 106 pretreated, treated and distributed water samples with a maximum reported value of 5.6 mg/L.

The ODWOs indicate that a hardness level of between 80 and 100 mg/L as calcium carbonate for domestic waters provides an acceptable balance between corrosion and encrustation. Water supplies with a hardness greater than 200 mg/L are considered poor and possess a tendency to form scale deposits and result in excessive soap consumption.

Hardness exceeded the ODWO Recommended Operational Guideline of 80-100 mg/L and also exceeded 200 mg/L in all 106 pretreated, treated and distributed water samples with a maximum reported value of 528 mg/L.

Magnesium exceeded the European Economic Community Aesthetic Guideline Level of 30.0 mg/L in 75 of 106 pretreated, treated and distributed water samples with a maximum reported value of 42.0 mg/L.

Sodium exceeded the ODWO Recommended Operational Guideline of 200 mg/L in 1 of 106 pretreated, treated and distributed water samples with a maximum reported value of 263.5 mg/L.

Total ammonium exceeded the European Economic Community Aesthetic Guideline Level of 0.05 mg/L in 22 of 106 pretreated, treated and distributed water samples with a maximum reported value of 0.17 mg/L.

Dissolved solids (residue filtrate in Table 4) exceeded the ODWO Aesthetic Objective of 500 mg/L in 55 of 106 pretreated, treated and distributed water samples with a maximum reported value of 1200 mg/L.

The numerous minerals and salts detected above aesthetic guidelines is characteristic of many groundwater sources.

METALS

Iron exceeded the ODWO Aesthetic Objective of 300 ug/L in 1 of 106 pretreated, treated and distributed water samples with a maximum reported value of 480 ug/L.

ORGANIC

CHLOROAROMATICS

The results of the chloroaromatic scan showed that none were detected.

CHLOROPHENOLS

The results of the chlorophenol scan showed that none were detected.

PESTICIDES AND PCB

The results of the pesticide and pcb scan showed that none were detected above trace levels.

PHENOLICS

The results of the phenolic test showed that none were detected above trace levels.

POLYAROMATIC HYDROCARBONS

The results of the polyaromatic hydrocarbon scan showed that none were detected.

SPECIFIC PESTICIDES

The results of the specific pesticide scan showed that none were detected.

VOLATILES

The detection of benzene, ethylbenzene, toluene and xylenes at low, trace levels may be a laboratory artifact derived from the analytical methodology. Trace levels of styrene are considered to be laboratory artifacts resulting from the sample shipping containers.

1,1,1-Trichloroethane was found at positive levels in 10 of the 106 pretreated, treated and distributed water samples analyzed. The maximum observed level was 6.0 ug/L. This was below the United States Environmental Protection Agency Maximum Contaminant Level of 200 ug/L.

Trichloroethylene was found at positive levels in 5 of the 106 pretreated, treated and distributed water samples analyzed. The maximum observed level was 2.5 ug/L. This was below the ODWC Maximum Acceptable Concentration of 50 ug/L. Trichloroethylene was also detected at trace levels in 4 wells.

Tetrachloroethylene was found at positive levels in 5 of the 106 pretreated, treated and distributed water samples analyzed. The maximum observed level was 3.6 ug/L. This was below the ODWO Health Related Guidance Value of 65 ug/L. Tetrachloroethylene was also detected at trace levels in one well.

Cis 1,2-dichloroethylene was added to the volatile organic scan by the MOEE laboratory in November 1991. Prior to this date the presence of cis 1,2-dichloroethylene was reported in a note attached to the laboratory results and were therefore not included in the DWSP data base. These results are listed below.

Guelph well supply

Sample Date	Water St	Emma	Edinburgh	Park	Sacco
May 1991	1.5 ug/L	-	-	-	-
Aug 1991	-	-	-	-	1.8 ug/L
Sep 1991	1.5 ug/L	0.1 ug/L	0.3 ug/L	0.3 ug/L	-

Cis 1,2-dichloroethylene was found at positive levels in 3 of 31 pretreated, treated and distributed water samples analysed after November 1991. The maximum observed level was 1.7 ug/L. This was below the United States Environmental Protection Agency Maximum Contaminant Level of 70 ug/L.

1,1-Dichloroethylene, 1,1-dichloroethane and chloroform were detected at trace levels in several wells.

Trihalomethanes (THMs) are produced during the water treatment process and will always occur in chlorinated waters. THMs are comprised of chloroform, chlorodibromomethane and dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. Only total THM results are discussed. Starting in 1991, samples from the distribution system were quenched with sodium thiosulphate to stop the further production of THMs in the sample bottle. This provided a more representative estimation of the THMs consumed in tap water.

Total trihalomethanes were found at positive levels in 12 of 43 treated and distributed water samples analyzed. The maximum observed level was 25.3 ug/L. This was below the ODWO Maximum Acceptable Concentration of 350 ug/L.

RADIOLOGICAL

RADIONUCLIDES

There are more than 200 radionuclides, some of which occur naturally and others which originate from the activities of society. The radionuclides currently of greater interest from a health view-point are tritium, strontium-90, iodine-131, cesium-137 and radium-226. The gross beta and gross alpha determinations are suitable for preliminary screening except for tritium which must be measured separately. Radionuclides are measured in becquerels per litre (Bq/L). No results were above the available guidelines.

CONCLUSIONS

No known health related guidelines were exceeded.

The Guelph well supply, as sampled by DWSP, for the sample years of 1991 and 1992, produced good quality water and this was maintained in the distribution system.

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM

PLANT GENERAL REPORT

PLANT NAME:	GUELPH WELL SUPPLY
WORKS #:	220000095
UTM #:	175000004800000
DISTRICT:	CAMBRIDGE
REGION:	WEST CENTRAL
DISTRICT OFFICER:	J. TAYLOR
SUPERINTENDENT:	DOMENIC BASSO
ADDRESS:	FM WOODS PS, WATER WORKS PLACE GUELPH, ONTARIO 519-837-5627
MUNICIPALITY:	GUELPH
AUTHORITY:	MUNICIPAL

PLANT INFORMATION

PLANT VOLUME:	-	(X 1000 M3)
MAXIMUM PUMPING CAPACITY:	90.460	(X 1000 M3/DAY)
RATED CAPACITY:	-	(X 1000 M3/DAY)

MUNICIPALITY	POPULATION
GUELPH	90,000

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM GUELPH WELL SUPPLY SAMPLE DAY CONDITIONS
AND TREATMENT CHEMICAL DOSAGES IN (MG/L) FOR 1991 AND 1992
F.M. WOODS PUMPING STATION

DATE	DELAY * TIME(HRS)	FLOW (1000M3)	POST CHLORINATION CHLORINE
91 JAN 07	12.00	13.636	.60
91 FEB 04	12.00	22.438	.60
91 MAR 04	12.00	25.591	.60
91 APR 02	12.00	26.626	.60
91 MAY 01	12.00	29.802	.60
91 JUN 03	12.00	13.636	.60
91 JUL 02	12.00	38.815	.60
92 APR 06	.	.	.
92 MAY 04	12.00	.000	.55
92 OCT 05	.00	.000	.90

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM GUELPH WELL SUPPLY SAMPLE DAY CONDITIONS
AND TREATMENT CHEMICAL DOSAGES IN (MG/L) FOR 1991 AND 1992
PAISLEY ROAD WELL

DATE	DELAY * TIME(HRS)	FLOW (1000M3)	POST CHLORINATION CHLORINE	IRON SEQUESTERING SODIUM SILICATE
91 JAN 07	.00	4.545	.54	1.06
91 FEB 04	60.00	2.914	.54	1.06
91 MAR 04	60.00	4.000	.54	1.06
91 APR 02	60.00	4.675	.80	3.40
91 MAY 01	60.00	3.667	.54	5.40
91 JUN 03	60.00	4.545	.60	5.00
91 JUL 02	60.00	8.527	1.86	4.20
92 APR 06	8.00	3.000	1.55	3.57
92 MAY 04	.	.	.	
92 OCT 05	.	.	.	

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM GUELPH WELL SUPPLY SAMPLE DAY CONDITIONS
AND TREATMENT CHEMICAL DOSAGES IN (MG/L) FOR 1991 AND 1992
UNIVERSITY OF GUELPH PUMPING STATION

DATE	DELAY * TIME(HRS)	FLOW (1000M3)	POST CHLORINATION CHLORINE
91 JAN 07	36.00	2.273	.45
91 FEB 04	36.00	1.522	.45
91 MAR 04	36.00	1.568	.45
91 APR 02	36.00	1.077	.30
91 MAY 01	36.00	1.390	.30
91 JUN 03	36.00	2.273	.25
91 JUL 02	36.00	1.583	.32
92 APR 06	.	.	.
92 MAY 04	.	.	.
92 OCT 05	.	.	.

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

KEY TO TABLE 4 and 5

A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
- 1. Maximum Acceptable Concentration (MAC)
- 1+. MAC for Total Trihalomethanes
- 2. Interim Maximum Acceptable Concentration (IMAC)
- 3. Aesthetic Objective (AO)
- 3*. AO for Total Xylenes
- 4. Recommended Operational Guideline
- 5. Health Related Guidance Value

B HEALTH & WELFARE CANADA (H&W)
- 1. Maximum Acceptable Concentration (MAC)
- 2. Proposed MAC
- 3. Interim MAC
- 4. Aesthetic Objective (AO)

C WORLD HEALTH ORGANIZATION (WHO)
- 1. Guideline Value (GV)
- 2. Tentative GV
- 3. Aesthetic GV

D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
- 1. Maximum Contaminant Level (MCL)
- 2. Suggested No-Adverse Effect Level (SNAEL)
- 3. Lifetime Health Advisory
- 4. EPA Ambient Water Quality Criteria

F EUROPEAN ECONOMIC COMMUNITY (EEC)
- 1. Health Related Guideline Level
- 2. Aesthetic Guideline Level
- 3. Maximum Admissable Concentration (MADC)

G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE

I NEW YORK STATE AMBIENT WATER GUIDELINE

N/ NONE AVAILABLE

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurement Amount
<T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!48	No Data: Sample Age Exceeded 48 Hours
!AR	No Data: No Numeric Results
!AW	No Data: Analysis Withdrawn
!BT	No Data: Sample Broken In Transit
!CS	No Data: Contamination Suspected
!EF	No Data: Laboratory Equipment Failure
!IR	No Data: Insufficient Sample
!IS	No Data: Insufficient Sample
!LA	No Data: Laboratory Accident
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!PE	No Data: Procedure Error: Sample Discarded
!PR	No Data: Preservative Required
!QU	No Data: Quality Control Unacceptable
!RE	No Data: Received Empty
!RO	No Data: No Numeric Results
!SM	No Data: Sample Missing
!SS	No Data: Sample Improperly Preserved
!U	No Data: Sample Unsuitable For Analysis
!UB	No Data: Bottle Broken
!UN	No Data: Result Unreliable

!UR	No Data: Unpreserved Sample Required
A	Approximate Value
A3C	Approximate, Total Count Exceeded 300 Colonies
A>	Approximate Value, Exceeded Normal Range
APS	Additional Peak, Less Than, Not Priority Pollutant
ARO	Additional Information In Laboratory Report
CRO	Calculated Result Only
NAF	Not All Required Tests Found
RID	Ioncal Calculated on Incomplete Data Set
RMP	P and M-Xylene Not Separated
RRR	Result Obtained by Repeat Analysis
RRV	Rerun Verification
SFA	Sample Filtered: Filtrate Analyzed
SIL	Sample Incorrectly Labelled
SPS	Several Peaks, Small, Not Priority Pollutant
U48	Unreliable: Sample Age Exceeded 48 Hours
UAL	Unreliable: Sample Age Exceeded Limit
UAU	Unreliable: Sample Age Unknown
UCS	Unreliable: Contamination Suspected
WSD	Wrong Sample Description On Bottle

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
BACTERIOLOGICAL								
FECAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 0 (A1)			
1991 JAN	0	.	.	.	.	.	.	.
1991 FEB	0	.	.	.	.	.	.	.
1991 MAR	0	.	.	.	.	.	.	.
1991 APR	0	.	.	.	.	.	.	.
1991 MAY	0 UAU	.	.	.	.	.	.	.
1991 JUN	0	.	.	.	.	.	.	.
1991 JUL	1	.	.	.	.	.	.	.
1991 AUG	.	108	.	.	.	.	.	0
1991 SEP	.	.	0	0	.	0	0	.
1991 NOV	.	.	0	0	0	0	0	.
1992 MAR	.	.	0	0	0	0	0	.
1992 AUG	.	124	0	0	0	0	22	.
TOTAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 5/100ML (A1)			
1991 JAN	0	.	.	.	.	.	.	.
1991 FEB	1	.	.	.	.	.	.	.
1991 MAR	0	.	.	.	.	.	.	.
1991 APR	0	.	.	.	.	.	.	.
1991 MAY	1 UAU	.	.	.	.	.	.	.
1991 JUN	10	.	.	.	.	.	.	.
1991 JUL	27	.	.	.	.	.	.	.
1991 AUG	.	!LA	.	.	.	.	.	!LA
1991 SEP	.	.	0	0	.	0	0	.
1991 NOV	.	.	0	0	0	0	0	.
1992 MAR	.	.	0	0	0	1	0	.
1992 AUG	.	530 A3C	0	0	0	8	33	.
T COLIFORM BCKGRD MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = N/A			
1991 JAN	24	.	.	.	.	.	.	.
1991 FEB	11	.	.	.	.	.	.	.
1991 MAR	26	.	.	.	.	.	.	.
1991 APR	2	.	.	.	.	.	.	.
1991 MAY	23 UAU	.	.	.	.	.	.	.
1991 JUN	28	.	.	.	.	.	.	.
1991 JUL	32	.	.	.	.	.	.	.
1991 AUG	.	!LA	.	.	.	.	.	!LA
1991 SEP	.	.	1	0	.	0	10	.
1991 NOV	.	.	0	0	0	0	1	.
1992 MAR	.	.	0	0	0	2	19	.
1992 AUG	.	24000 >	0	0	0	80	240	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
BACTERIOLOGICAL								
FECAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		'ELINE = 0 (A1)			
1991 JAN	.	0	.	.	.	.	.	.
1991 FEB	.	0	.	.	.	.	.	.
1991 MAR	.	0	.	.	.	.	.	.
1991 APR	.	0	.	.	.	.	.	.
1991 MAY	.	0 UAU	.	.	.	.	.	.
1991 JUN	.	0	.	.	.	.	.	.
1991 JUL	.	0	.	.	.	.	.	.
1991 AUG	.	.	.	.	.	0	.	.
1991 SEP	1	.	.	0	0	.	0	0
1991 OCT	.	.	0	0	0	0	0	0
1991 NOV	0	.	.	.	.	.	.	.
1992 MAR	1	.	.	.	.	.	.	.
1992 APR	.	0	0	0	0	0	0	0
1992 AUG	0	.	.	.	.	.	.	.
1992 OCT	.	0	0	0	0	.	0	.
TOTAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 5/100ML (A1)			
1991 JAN	.	0	.	.	.	.	.	.
1991 FEB	.	0	.	.	.	.	.	.
1991 MAR	.	0	.	.	.	.	.	.
1991 APR	.	0	.	.	.	.	.	.
1991 MAY	.	0 UAU	.	.	.	.	.	.
1991 JUN	.	0	.	.	.	.	.	.
1991 JUL	.	0	.	.	.	.	.	.
1991 AUG	.	.	.	.	.	ILA	.	.
1991 SEP	65 A3C	.	.	0	0	.	0	0
1991 OCT	.	.	0	0	0	0	0	0
1991 NOV	0	.	.	.	.	.	.	.
1992 MAR	0	.	.	.	.	.	.	.
1992 APR	.	0	0	0	0	0	0	0
1992 AUG	5	.	.	.	.	.	.	.
1992 OCT	.	0	0	0	0	.	0	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
BACTERIOLOGICAL								
FECAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 0 (A1)			
1991 JAN	0	.	.	.	.	.	.	.
1991 FEB	0	.	.	.	.	.	.	.
1991 MAR	0	.	.	.	.	.	.	.
1991 APR	0	.	.	.	.	.	.	.
1991 MAY	0 UAU	.	.	.	.	.	.	.
1991 JUN	0	.	.	.	.	.	.	.
1991 JUL	0	.	.	.	.	.	.	.
1991 AUG	.	.	.	.	.	0	.	.
1991 SEP	.	.	0	0	.	.	0	.
1991 NOV	.	.	0	0	0	0	0	.
1992 MAY	0	0	0	0	.	0	0	.
STANDRD PLATE CNT MF (CT/ML)			DET'N LIMIT = 0		GUIDELINE = 500 (A3)			
1991 JAN	.	.	.	.	.	.	.	0 <=>
1991 FEB	.	.	.	.	.	.	.	0 <=>
1991 MAR	.	.	.	.	.	.	.	4 <=>
1991 APR	.	.	.	.	.	.	.	0 <=>
1991 MAY	.	.	.	.	.	.	.	0 <=>
1991 JUN	.	.	.	.	.	.	.	4 <=>
1991 JUL	.	.	.	.	.	.	.	1 <=>
TOTAL COLIFORM MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = 5/100ML (A1)			
1991 JAN	0	.	.	.	.	.	.	.
1991 FEB	0	.	.	.	.	.	.	.
1991 MAR	0	.	.	.	.	.	.	.
1991 APR	0	.	.	.	.	.	.	.
1991 MAY	0 UAU	.	.	.	.	.	.	.
1991 JUN	0	.	.	.	.	.	.	.
1991 JUL	0	.	.	.	.	.	.	.
1991 AUG	.	.	.	.	.	!LA	.	.
1991 SEP	.	.	0	0	.	.	0	.
1991 NOV	.	.	0	0	0	0	0	.
1992 MAY	0	0	0	0	.	0	0	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

BACTERIOLOGICAL
STANDRD PLATE CNT MF (CT/ML) DET'N LIMIT = 0 GUIDELINE = 500 (A3)

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
1991 JAN	.	0 <=>	0 <=>	.	2 <=>	.
1991 FEB	.	5 <=>	2 <=>	.	3 <=>	.
1991 MAR	0 <=>	2 <=>	17	.	1 <=>	.
1991 APR	2 <=>	0 <=>	1 <=>	.	3 <=>	.
1991 MAY	0 <=>	5 <=>	6 <=>	.	0 <=>	.
1991 JUN	4 <=>	1 <=>	2 <=>	.	1 <=>	.
1991 JUL	1 <=>	0 <=>	1 <=>	.	0 <=>	.
1991 AUG	.	.	1 <=>	.	1 <=>	.
1991 OCT	.	.	.	.	3 <=>	.
1992 APR	0 <=>	.	.	.	4 <=>	.
1992 MAY	.	3 <=>	.	.	.	.
1992 OCT	2 <=>	.	.	.	8 <=>	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

BACTERIOLOGICAL

T COLIFORM BCKGRD MF (CT/100ML) DET'N LIMIT = 0 GUIDELINE = N/A

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
1991 JAN	.	0	.	.	.	.	.	.
1991 FEB	.	0	.	.	.	.	.	.
1991 MAR	.	0	.	.	.	.	.	.
1991 APR	.	0	.	.	.	.	.	.
1991 MAY	.	0 UAU	.	.	.	.	.	.
1991 JUN	.	0	.	.	.	.	.	.
1991 JUL	.	0	.	.	.	.	.	.
1991 AUG	.	.	.	.	.	!LA	.	.
1991 SEP	600 A3C	.	.	0	0	.	0	0
1991 OCT	.	.	0	0	0	0	0	0
1991 NOV	6	.	.	.	.	.	.	.
1992 MAR	7	.	.	.	.	.	.	.
1992 APR	.	0	0	0	0	0	0	0
1992 AUG	115	.	.	.	.	.	.	.
1992 OCT	.	0	0	0	0	.	1	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
BACTERIOLOGICAL								
T COLIFORM BCKGRD MF (CT/100ML)			DET'N LIMIT = 0		GUIDELINE = N/A			
1991 JAN	0	.	.	.	.	.	.	.
1991 FEB	0	.	.	.	.	.	.	.
1991 MAR	0	.	.	.	.	.	.	.
1991 APR	0	.	.	.	.	.	.	.
1991 MAY	0 UAU	.	.	.	.	.	.	.
1991 JUN	0	.	.	.	.	.	.	.
1991 JUL	0	.	.	.	.	.	.	.
1991 AUG	.	.	.	.	.	!LA	.	.
1991 SEP	.	.	0	1	.	.	0	.
1991 NOV	.	.	0	0	0	0	0	.
1992 MAY	0	0	0	0	.	0	1	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (FIELD)								
FLD CHLORINE (COMB) (MG/L)			DET'N LIMIT = 0		GUIDELINE = N/A			
1991 JAN	.	.	.	.	.	.	.	.100
1991 FEB	.	.	.	.	.	.	.	.000
1991 APR	.	.	.	.	.	.	.	.000
1991 MAY	.	.	.	.	.	.	.	.020
1991 JUN	.	.	.	.	.	.	.	.050
1991 JUL	.	.	.	.	.	.	.	.060
FLD CHLORINE FREE (MG/L)			DET'N LIMIT = 0		GUIDELINE = N/A			
1991 JAN	.	.	.	.	.	.	.	.000
1991 FEB	.	.	.	.	.	.	.	.000
1991 APR	.	.	.	.	.	.	.	.000
1991 MAY	.	.	.	.	.	.	.	.080
1991 JUN	.	.	.	.	.	.	.	.050
1991 JUL	.	.	.	.	.	.	.	.040
FLD CHLORINE (TOTAL) (MG/L)			DET'N LIMIT = 0		GUIDELINE = N/A			
1991 JAN	.	.	.	.	.	.	.	.100
1991 FEB	.	.	.	.	.	.	.	.000
1991 APR	.	.	.	.	.	.	.	.000
1991 MAY	.	.	.	.	.	.	.	.100
1991 JUN	.	.	.	.	.	.	.	.100
1991 JUL	.	.	.	.	.	.	.	.100

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (FIELD)								
FLD CHLORINE (COMB) (MG/L)			DET'N LIMIT = 0		GUIDELINE = N/A			
1991 JAN	.100	.100	.000	.000	.000	.	.	.
1991 FEB	.100	.100	.200	.100	.000	.000	.	.
1991 MAR	.060	.050	.100	.100	.	.	.	.
1991 APR	.050	.050	.000	.000	.000	.000	.	.
1991 MAY	.100	.100	.000	.000	.000	.000	.	.
1991 JUN	.100	.050	.000	.000	.000	.000	.	.
1991 JUL	.100	.100	.000	.000	.000	.000	.	.
1991 AUG	.	.	.100	.100	.	.	.	.
1991 OCT	.	.	.	.	.100	.100	.	.
1992 APR	.050	.	.	.	.000	.000	.	.
1992 MAY	.	.050	.	.	.	.	.	.
1992 OCT	.000	.	.	.	.	.	.	.
FLD CHLORINE FREE (MG/L)			DET'N LIMIT = 0		GUIDELINE = N/A			
1991 JAN	.000	.000	.100	.100	.010	.	.	.
1991 FEB	.000	.000	.200	.100	.010	.010	.	.
1991 MAR	.040	.050	.100	.100	.	.	.	.
1991 APR	.050	.050	.100	.100	.010	.010	.	.
1991 MAY	.000	.000	.100	.100	.010	.010	.	.
1991 JUN	.000	.050	.100	.100	.010	.010	.	.
1991 JUL	.000	.000	.100	.100	.000	.000	.	.
1991 AUG	.	.	.100	.100	.	.	.	.
1991 OCT	.	.	.	.	.100	.100	.	.
1992 APR	.070	.	.	.	.000	.000	.	.
1992 MAY	.	.040	.	.	.	.	.	.
1992 OCT	.060	.	.	.	.	.	.	.
FLD CHLORINE (TOTAL) (MG/L)			DET'N LIMIT = 0		GUIDELINE = N/A			
1991 JAN	.100	.100	.100	.100	.010	.	.	.
1991 FEB	.100	.100	.	.	.010	.010	.	.
1991 MAR	.100	.100	.	.	.	.	.	.
1991 APR	.100	.100	.100	.100	.010	.010	.	.
1991 MAY	.100	.100	.100	.100	.010	.010	.	.
1991 JUN	.100	.100	.100	.100	.010	.010	.	.
1991 JUL	.100	.100	.100	.100	.000	.000	.	.
1991 OCT	.	.	.	.	.200	.200	.	.
1992 APR	.120	.	.	.	.000	.000	.	.
1992 MAY	.	.090	.	.	.	.	.	.
1992 OCT	.060	.	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (FIELD)								
FLD PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5 (A4)			
1991 JAN	7.800	.	.	.	.	.	.	.
1991 FEB	7.600	.	.	.	.	.	.	.
1991 MAR	7.600	.	.	.	.	.	.	.
1991 APR	7.400	.	.	.	.	.	.	.
1991 MAY	7.400	.	.	.	.	.	.	.
1991 JUN	7.400	.	.	.	.	.	.	.
1991 JUL	7.400	.	.	.	.	.	.	.
1991 NOV	.	.	7.800	7.800	7.800	7.600	7.800	.
1992 MAR	.	.	8.000	7.800	8.000	7.900	7.800	.
1992 AUG	.	8.600	8.000	7.900	8.000	8.200	8.000	.
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = 15 (A3)			
1991 JAN	6.000	.	.	.	.	.	.	.
1991 FEB	8.000	.	.	.	.	.	.	.
1991 MAR	8.500	.	.	.	.	.	.	.
1991 APR	8.000	.	.	.	.	.	.	.
1991 MAY	10.000	.	.	.	.	.	.	.
1991 JUN	9.500	.	.	.	.	.	.	.
1991 JUL	10.000	.	.	.	.	.	.	.
1991 NOV	.	.	8.500	8.500	9.000	8.500	8.500	.
1992 MAR	.	.	8.500	8.500	8.500	7.500	8.500	.
1992 AUG	.	14.000	9.500	10.000	9.000	9.500	9.500	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (FIELD)								
FLD PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5 (A4)			
1991 JAN	.	7.400	.	.	.	.	.	.
1991 FEB	.	7.400	.	.	.	.	.	.
1991 MAR	.	7.400	.	.	.	.	.	.
1991 APR	.	7.600	.	.	.	.	.	.
1991 MAY	.	7.400	.	.	.	.	.	.
1991 JUN	.	7.600	.	.	.	.	.	.
1991 JUL	.	7.600	.	.	.	.	.	.
1991 AUG	.	.	7.800	.	.	8.200	.	.
1991 OCT	.	.	7.800	8.200	8.000	7.600	7.400	7.800
1991 NOV	7.600	.	.	.	.	.	.	.
1992 MAR	7.800	.	.	.	.	.	.	.
1992 APR	.	7.800	7.400	7.600	7.400	7.800	7.400	7.600
1992 AUG	8.000	.	.	.	.	.	.	.
1992 OCT	.	8.200	8.000	8.200	8.200	.	8.000	.
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = [illegible]			
1991 JAN	.	9.500	.	.	.	.	.	.
1991 FEB	.	9.500	.	.	.	.	.	.
1991 MAR	.	10.000	.	.	.	.	.	.
1991 APR	.	11.000	.	.	.	.	.	.
1991 MAY	.	9.000	.	.	.	.	.	.
1991 JUN	.	10.000	.	.	.	.	.	.
1991 JUL	.	10.000	.	.	.	.	.	.
1991 AUG	.	.	11.000	.	.	11.000	.	.
1991 OCT	.	.	9.000	10.000	9.000	9.500	9.000	9.500
1991 NOV	9.000	.	.	.	.	.	.	.
1992 MAR	8.000	.	.	.	.	.	.	.
1992 APR	.	9.500	9.000	9.000	9.000	9.000	9.000	9.500
1992 AUG	10.000	.	.	.	.	.	.	.
1992 OCT	.	9.500	8.500	9.500	9.000	.	9.000	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (FIELD)								
FLD PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5 (A4)			
1991 JAN	7.600	.	.	.	.	.	.	7.600
1991 FEB	7.600	.	.	.	.	.	.	7.600
1991 MAR	7.600	.	.	.	.	.	.	7.600
1991 APR	7.400	.	.	.	.	.	.	7.400
1991 MAY	7.400	.	.	.	.	.	.	7.600
1991 JUN	7.400	.	.	.	.	.	.	7.400
1991 JUL	7.400	.	.	.	.	.	.	7.400
1991 AUG	.	7.800	.	.	7.800	7.800	.	.
1991 NOV	.	.	7.400	7.600	7.800	7.800	7.800	.
1992 MAY	7.700	7.800	7.600	7.600	.	8.000	7.600	.
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = 15 (A3)			
1991 JAN	9.500	.	.	.	.	.	.	9.500
1991 FEB	9.500	.	.	.	.	.	.	9.500
1991 MAR	9.500	.	.	.	.	.	.	9.500
1991 APR	11.000	.	.	.	.	.	.	11.000
1991 MAY	9.500	.	.	.	.	.	.	9.000
1991 JUN	13.000	.	.	.	.	.	.	10.000
1991 JUL	9.000	.	.	.	.	.	.	11.000
1991 AUG	.	11.000	.	.	11.000	10.000	.	.
1991 NOV	.	.	9.500	9.500	10.000	9.000	9.000	.
1992 MAY	10.000	9.500	10.000	10.000	.	9.500	10.000	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (FIELD)								
FLD PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5 (A4)			
1991 JAN	7.600	7.600	7.900	7.800	7.600	.	.	.
1991 FEB	7.400	7.400	7.600	7.600	7.600	7.600	.	.
1991 MAR	7.400	7.600	7.600	7.800	7.600	7.600	.	.
1991 APR	7.600	7.400	7.600	7.800	7.600	7.600	.	.
1991 MAY	7.400	7.400	7.800	7.600	7.600	7.600	.	.
1991 JUN	7.400	7.400	7.800	8.000	7.600	7.600	.	.
1991 JUL	7.600	7.400	7.600	7.600	7.600	7.600	.	.
1991 AUG	.	.	7.600	7.600	7.600	7.600	.	.
1991 OCT	.	.	.	.	7.600	7.600	.	.
1992 APR	7.800		.	.	7.600	7.600	.	.
1992 MAY	.	7	.	.	.	.	.	.
1992 OCT	8.200	.	.	.	7.600	7.600	.	.
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = 15 (A3)			
1991 JAN	9.000	9.000	9.000	14.000	9.000	.	.	.
1991 FEB	8.500	9.500	12.000	15.000	7.000	17.000	.	.
1991 MAR	9.500	9.500	8.000	14.000	13.000	14.500	.	.
1991 APR	11.000	11.000	12.000	18.000	8.000	16.000	.	.
1991 MAY	9.000	9.500	13.000	16.000	14.000	17.000	.	.
1991 JUN	10.000	13.000	17.000	22.000	13.000	17.000	.	.
1991 JUL	10.000	10.000	15.000	18.000	21.000	29.000	.	.
1991 AUG	.	.	16.000	19.000	14.500	22.000	.	.
1991 OCT	.	.	.	.	14.000	20.000	.	.
1992 APR	9.000	.	.	.	7.000	11.000	.	.
1992 MAY	.	9.500	.	.	.	.	.	.
1992 OCT	9.500	.	.	.	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
ALKALINITY (MG/L)			DET'N LIMIT = 0.2		GUIDELINE = 30-500 (A4)			
1991 JAN	267.500	.	.	.	.	.	.	.
1991 FEB	273.400	.	.	.	.	.	.	.
1991 MAR	273.300	.	.	.	.	.	.	.
1991 APR	271.700	.	.	.	.	.	.	.
1991 MAY	275.600	.	.	.	.	.	.	.
1991 JUN	269.300	.	.	.	.	.	.	.
1991 JUL	266.600	.	.	.	.	.	.	.
1991 AUG	.	216.400	.	.	.	.	.	335.600
1991 SEP	.	.	267.900	267.100	.	IRE	253.800	.
1991 OCT	.	.	.	.	255.400	.	.	.
1991 NOV	.	.	IRE	264.900	261.200	278.900	246.300	.
1992 MAR	.	.	260.700	260.000	257.900	283.000	250.800	.
1992 AUG	.	239.300	262.800	261.000	265.300	290.300	256.900	.
CALCIUM (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 100 (F2)			
1991 JAN	96.400	.	.	.	.	.	.	.
1991 FEB	99.000	.	.	.	.	.	.	.
1991 MAR	97.000	.	.	.	.	.	.	.
1991 APR	94.400	.	.	.	.	.	.	.
1991 MAY	87.900	.	.	.	.	.	.	.
1991 JUN	85.800	.	.	.	.	.	.	.
1991 JUL	94.600	.	.	.	.	.	.	.
1991 AUG	.	71.100	.	.	.	.	.	138.000
1991 SEP	.	.	106.000	106.000	.	IRE	101.000	.
1991 OCT	.	.	.	.	103.200	.	.	.
1991 NOV	.	.	IRE	101.200	97.200	83.800	98.200	.
1992 MAR	.	.	101.300	102.000	107.200	85.100	100.300	.
1992 AUG	.	75.700	100.700	107.000	109.400	95.200	98.700	.
CYANIDE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 0.2 (A1)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
ALKALINITY (MG/L)			DET'N LIMIT = 0.2		GUIDELINE = 30-500 (A4)			
1991 JAN	.	299.200	.	.	.	.	.	.
1991 FEB	.	308.600	.	.	.	.	.	.
1991 MAR	.	306.100	.	.	.	.	.	.
1991 APR	.	265.500	.	.	.	.	.	.
1991 MAY	.	304.800	.	.	.	.	.	.
1991 JUN	.	271.000	.	.	.	.	.	.
1991 JUL	.	297.200	.	.	.	.	.	.
1991 AUG	.	.	275.800	.	.	270.600	.	.
1991 SEP	320.200	.	.	250.400	250.100	.	306.800	334.700
1991 OCT	.	.	267.900	243.300	245.800	256.300	269.500	279.300
1991 NOV	286.600	.	.	.	.	.	.	.
1992 MAR	298.500	.	.	.	.	.	.	.
1992 APR	.	284.100	274.800	243.800	234.100	250.800	283.600	322.900
1992 AUG	304.500	.	.	.	.	.	.	.
1992 OCT	.	280.400	275.800	250.800	251.400	.	286.100	.
CALCIUM (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 100 (F2)			
1991 JAN	.	106.300	.	.	.	.	.	.
1991 FEB	.	106.000	.	.	.	.	.	.
1991 MAR	.	97.400	.	.	.	.	.	.
1991 APR	.	82.400	.	.	.	.	.	.
1991 MAY	.	98.200	.	.	.	.	.	.
1991 JUN	.	84.400	.	.	.	.	.	.
1991 JUL	.	89.800	.	.	.	.	.	.
1991 AUG	.	.	97.700	.	.	95.300	.	.
1991 SEP	110.000	.	.	94.200	95.000	.	140.000	108.000
1991 OCT	.	.	94.300	89.600	87.000	88.800	116.700	89.500
1991 NOV	97.700	.	.	.	.	.	.	.
1992 MAR	113.300	.	.	.	.	.	.	.
1992 APR	.	98.000	95.000	98.900	92.800	85.700	142.300	113.200
1992 AUG	100.100	.	.	.	.	.	.	.
1992 OCT	.	109.750	97.200	104.200	95.350	.	141.100	.
CYANIDE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 0.2 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
ALKALINITY (MG/L)			DET'N LIMIT = 0.2		GUIDELINE = 30-500 (A4)			
1991 JAN	276.900	.	.	.	.	.	.	267.000
1991 FEB	282.900	.	.	.	.	.	.	272.700
1991 MAR	283.800	.	.	.	.	.	.	277.300
1991 APR	234.700	.	.	.	.	.	.	272.800
1991 MAY	281.100	.	.	.	.	.	.	274.600
1991 JUN	150.000	.	.	.	.	.	.	272.100
1991 JUL	283.900	.	.	.	.	.	.	268.900
1991 AUG	.	316.700	.	.	307.300	306.900	.	.
1991 SEP	.	.	326.500	268.700	.	.	288.700	.
1991 NOV	.	.	296.300	275.600	342.800	286.500	281.900	.
1992 MAY	239.300	322.000	289.100	270.600	.	275.000	280.300	.
CALCIUM (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 100 (F2)			
1991 JAN	113.600	.	.	.	.	.	.	94.700
1991 FEB	107.000	.	.	.	.	.	.	97.600
1991 MAR	105.200	.	.	.	.	.	.	95.400
1991 APR	80.700	.	.	.	.	.	.	87.600
1991 MAY	103.500	.	.	.	.	.	.	88.200
1991 JUN	51.500	.	.	.	.	.	.	87.200
1991 JUL	102.000	.	.	.	.	.	.	91.200
1991 AUG	.	128.800	.	.	94.400	93.900	.	.
1991 SEP	.	.	144.500	141.000	.	.	141.000	.
1991 NOV	.	.	122.900	143.100	93.600	81.000	137.700	.
1992 MAY	83.650	88.300	113.050	128.050	.	79.550	129.300	.
CYANIDE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 0.2 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
ALKALINITY (MG/L)			DET'N LIMIT = 0.2		GUIDELINE = 30-500 (A4)			
1991 JAN	284.500	277.200	278.500	263.900	282.000	.	.	.
1991 FEB	291.000	286.500	273.100	272.500	293.500	292.300	.	.
1991 MAR	289.800	282.900	266.900	272.300	289.400	289.100	.	.
1991 APR	285.900	234.000	263.200	271.800	284.700	286.900	.	.
1991 MAY	289.800	251.100	271.700	278.100	292.100	295.200	.	.
1991 JUN	278.100	193.900	265.700	267.900	278.500	282.200	.	.
1991 JUL	284.500	278.700	268.100	272.600	277.400	273.100	.	.
1991 AUG	.	.	267.500	269.100	304.100	305.800	.	.
1991 OCT	.	.	.	.	273.500	278.900	.	.
1992 APR	288.500	.	.	.	286.500	270.000	.	.
1992 MAY	.	171.800	.	.	.	.	.	.
1992 OCT	283.100	.	.	.	285.800	284.300	.	.
CALCIUM (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 100 (F2)			
1991 JAN	109.200	111.700	126.000	100.200	108.900	.	.	.
1991 FEB	105.000	106.000	99.600	95.400	106.000	109.000	.	.
1991 MAR	109.000	110.000	101.000	99.200	109.000	110.000	.	.
1991 APR	93.900	81.600	92.300	84.600	97.300	97.500	.	.
1991 MAY	97.100	88.700	91.000	90.500	100.000	99.200	.	.
1991 JUN	91.200	83.600	92.800	90.200	91.300	93.600	.	.
1991 JUL	99.000	99.400	92.000	89.600	97.600	94.400	.	.
1991 AUG	.	.	83.300	83.200	94.000	95.600	.	.
1991 OCT	.	.	.	.	93.500	97.000	.	.
1992 APR	95.600	.	.	.	102.700	97.200	.	.
1992 MAY	.	70.200	.	.	.	.	.	.
1992 OCT	109.000	.	.	.	95.150	99.900	.	.
CYANIDE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 0.2 (A1)			
	BDL	BDL	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
CHLORIDE (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 250 (A3)			
1991 JAN	30.000	.	.	.	.	.	.	.
1991 FEB	31.100	.	.	.	.	.	.	.
1991 MAR	28.900	.	.	.	.	.	.	.
1991 APR	28.100	.	.	.	.	.	.	.
1991 MAY	19.700	.	.	.	.	.	.	.
1991 JUN	23.200	.	.	.	.	.	.	.
1991 JUL	29.200	.	.	.	.	.	.	.
1991 AUG	.	22.800	.	.	.	.	.	.
1991 SEP	.	.	39.500	25.900	.	IRE	71.900	409.000
1991 OCT	.	.	.	.	44.000	.	.	.
1991 NOV	.	.	IRE	28.900	44.700	16.800	71.400	.
1992 MAR	.	.	42.400	29.300	49.000	30.000	74.000	.
1992 AUG	.	23.100	36.700	29.700	45.300	43.400	73.800	.
COLOUR (HZU)			DET'N LIMIT = 0.50		GUIDELINE = 5 (A3)			
1991 JAN	1.500 <T	.	.	.	.	.	.	.
1991 FEB	.500 <T	.	.	.	.	.	.	.
1991 MAR	1.500 <T	.	.	.	.	.	.	.
1991 APR	1.000 <T	.	.	.	.	.	.	.
1991 MAY	1.000 <T	.	.	.	.	.	.	.
1991 JUN	1.500 <T	.	.	.	.	.	.	.
1991 JUL	.500 <T	.	.	.	.	.	.	.
1991 AUG	.	44.000	.	.	.	.	.	.500 <T
1991 SEP	.	.	2.000	6.000	.	IRE	2.500	.
1991 OCT	.	.	.	.	1.000 <T	.	.	.
1991 NOV	.	.	IRE	.500 <T	1.000	1.000 <T	1.500	.
1992 MAR	.	.	1.500	.500 <T	1.500	1.000 <T	2.000	.
1992 AUG	.	34.000	BDL	BDL	.500 <T	1.000	.500 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
CHLORIDE (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 250 (A3)			
1991 JAN	.	31.000	.	.	.	.	.	.
1991 FEB	.	36.600	.	.	.	.	.	.
1991 MAR	.	35.300	.	.	.	.	.	.
1991 APR	.	34.500	.	.	.	.	.	.
1991 MAY	.	38.100	.	.	.	.	.	.
1991 JUN	.	40.000	.	.	.	.	.	.
1991 JUL	.	35.700	.	.	.	.	.	.
1991 AUG	.	.	20.800	.	.	25.700	.	.
1991 SEP	149.000	.	.	34.900	34.400	.	136.000	37.500
1991 OCT	.	.	19.400	34.800	35.400	22.800	143.000	40.000
1991 NOV	135.000	.	.	.	.	.	.	.
1992 MAR	201.000	.	.	.	.	.	.	.
1992 APR	.	34.500	21.200	36.000	37.600	17.800	132.000	50.000
1992 AUG	186.000	.	.	.	.	.	.	.
1992 OCT	.	88.900	24.600	37.800	38.100	.	180.000	.
COLOUR (HZU)			DET'N LIMIT = 0.50		GUIDELINE = 5 (A3)			
1991 JAN	.	2.500	.	.	.	.	.	.
1991 FEB	.	2.500	.	.	.	.	.	.
1991 MAR	.	2.000 <T	.	.	.	.	.	.
1991 APR	.	2.500	.	.	.	.	.	.
1991 MAY	.	4.000	.	.	.	.	.	.
1991 JUN	.	5.500	.	.	.	.	.	.
1991 JUL	.	3.000	.	.	.	.	.	.
1991 AUG	.	.	2.500	.	.	7.000	.	.
1991 SEP	1.000	.	.	1.500	1.000 <T	.	1.000	9.000
1991 OCT	.	.	3.000	1.000 <T	.500 <T	3.000	1.000 <T	2.500
1991 NOV	1.000 <T	.	.	.	.	.	.	.
1992 MAR	.500 <T	.	.	.	.	.	.	.
1992 APR	.	4.000	4.000	1.000	1.000	3.500	1.000 <T	4.500
1992 AUG	.500 <T	.	.	.	.	.	.	.
1992 OCT	.	1.000	4.000	1.000 <T	.500 <T	.	.500 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
CHLORIDE (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 250 (A3)			
1991 JAN	78.900	.	.	.	.	.	.	26.100
1991 FEB	79.700	.	.	.	.	.	.	29.400
1991 MAR	82.200	.	.	.	.	.	.	28.800
1991 APR	81.300	.	.	.	.	.	.	25.600
1991 MAY	82.500	.	.	.	.	.	.	20.400
1991 JUN	81.600	.	.	.	.	.	.	23.500
1991 JUL	80.500	.	.	.	.	.	.	29.500
1991 AUG	.	142.000	.	.	53.000	52.200	.	.
1991 SEP	.	.	190.000	108.000	.	.	125.000	.
1991 NOV	.	.	170.000	98.800	68.500	52.300	126.000	.
1992 MAY	85.100	88.000	150.500	105.400	.	60.100	127.600	.
COLOUR (HZU)			DET'N LIMIT = 0.50		GUIDELINE = 5 (A3)			
1991 JAN	.500 <T	.	.	.	.	.	.	1.000 <T
1991 FEB	.500 <T	.	.	.	.	.	.	.500 <T
1991 MAR	.500 <T	.	.	.	.	.	.	1.000 <T
1991 APR	1.500 <T	.	.	.	.	.	.	1.000 <T
1991 MAY	.500 <T	.	.	.	.	.	.	1.000 <T
1991 JUN	1.500 <T	.	.	.	.	.	.	1.500 <T
1991 JUL	.500 <T	.	.	.	.	.	.	BDL
1991 AUG	.	1.000 <T	.	.	4.000	1.500	.	.
1991 SEP	.	.	1.500	1.000 <T	.	.	3.000	.
1991 NOV	.	.	1.000	1.000 <T	3.500	1.500	2.500	.
1992 MAY	1.000 <T	1.000	1.500	1.000	.	2.000	4.000	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
	CHEMISTRY (LABORATORY)							
CHLORIDE (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 250 (A3)			
1991 JAN	59.000	78.900	81.800	46.700	58.200	.	.	.
1991 FEB	56.300	80.500	44.400	40.700	57.600	57.400	.	.
1991 MAR	59.600	81.600	44.500	41.300	59.100	59.400	.	.
1991 APR	60.900	81.500	49.700	25.800	59.700	59.600	.	.
1991 MAY	57.100	82.600	27.900	21.400	59.900	58.800	.	.
1991 JUN	29.400	82.100	35.800	29.900	30.200	33.300	.	.
1991 JUL	52.000	80.500	32.400	28.000	46.400	32.900	.	.
1991 AUG	.	.	26.300	25.700	51.500	51.800	.	.
1991 OCT	.	.	.	.	44.700	46.000	.	.
1992 APR	32.700	.	.	.	64.600	57.400	.	.
1992 MAY		85.800	.	.	.	.	.	.
1992 OCT	[illegible]	.	.	.	56.300	56.600	.	.
COLOUR (HZU)			DET'N LIMIT = 0.50		GUIDELINE = 5 (A3)			
1991 JAN	1.000 <T	.500 <T	BDL	.500 <T	1.000 <T	.	.	.
1991 FEB	1.000 <T	1.000 <T	.500 <T	BDL	.500 <T	BDL	.	.
1991 MAR	.500 <T	BDL	1.000 <T	BDL	BDL	BDL	.	.
1991 APR	1.500 <T	1.000 <T	1.500 <T	1.000 <T	2.000 <T	1.500 <T	.	.
1991 MAY	1.000 <T	.500 <T	.500 <T	BDL	.500 <T	.500 <T	.	.
1991 JUN	2.000 <T	1.500 <T	1.500 <T	.500 <T	2.000 <T	2.000 <T	.	.
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 AUG	.	.	.500 <T	BDL	.500 <T	5.000	.	.
1991 OCT	.	.	.	.	1.000 <T	1.000 <T	.	.
1992 APR	1.000	.	.	.	1.000	1.500	.	.
1992 MAY	.	.500 <T	.	.	.	.	.	.
1992 OCT	1.000	.	.	.	2.000	2.000	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1.0		GUIDELINE = 400 (F2)			
1991 JAN	674	.	.	.	.	.	.	.
1991 FEB	687	.	.	.	.	.	.	.
1991 MAR	661	.	.	.	.	.	.	.
1991 APR	665	.	.	.	.	.	.	.
1991 MAY	592	.	.	.	.	.	.	.
1991 JUN	586	.	.	.	.	.	.	.
1991 JUL	684	.	.	.	.	.	.	.
1991 AUG	.	529	.	.	.	.	.	2050
1991 SEP	.	.	727	703	.	!RE	878	.
1991 OCT	.	.	.	.	796	.	.	.
1991 NOV	.	.	!RE	764	804	651	914	.
1992 MAR	.	.	779	756	810	696	912	.
1992 AUG	.	546	758	766	795	760	899	.
DISS ORG CARBON (MG/L)			DET'N LIMIT = 0.10		GUIDELINE = 5.0 (A3)			
1991 JAN	1.000	.	.	.	.	.	.	.
1991 FEB	.900	.	.	.	.	.	.	.
1991 MAR	1.100	.	.	.	.	.	.	.
1991 APR	1.100	.	.	.	.	.	.	.
1991 MAY	1.200	.	.	.	.	.	.	.
1991 JUN	1.100	.	.	.	.	.	.	.
1991 JUL	.900	.	.	.	.	.	.	.
1991 AUG	.	9.100	.	.	.	.	.	1.800
1991 SEP	.	.	1.100	.600	.	!RE	1.100	.
1991 OCT	.	.	.	.	1.100	.	.	.
1991 NOV	.	.	!RE	.400 <T	.900	.600	.700	.
1992 MAR	.	.	.900	.600	1.100	.900	.600	.
1992 AUG	.	7.200	1.000	.500	1.100	1.100	1.200	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1.0		GUIDELINE = 400 (F2)			
1991 JAN	.	725	.	.	.	.	.	.
1991 FEB	.	742	.	.	.	.	.	.
1991 MAR	.	727	.	.	.	.	.	.
1991 APR	.	729	.	.	.	.	.	.
1991 MAY	.	718	.	.	.	.	.	.
1991 JUN	.	722	.	.	.	.	.	.
1991 JUL	.	749	.	.	.	.	.	.
1991 AUG	.	.	713	.	.	715	.	.
1991 SEP	1145	.	.	786	732	.	1236	767
1991 OCT	.	.	702	822	758	695	1282	818
1991 NOV	1145	.	.	.	.	.	.	.
1992 MAR	1251	.	.	.	.	.	.	.
1992 APR	.	706	681	782	719	622	1195	832
1992 AUG	1278	.	.	.	.	.	.	.
1992 OCT	.	709	701	804	742	.	1227	.
DISS ORG CARBON (MG/L)			DET'N LIMIT = 0.10		GUIDELINE = 5.0 (A3)			
1991 JAN	.	1.100	.	.	.	.	.	.
1991 FEB	.	1.000	.	.	.	.	.	.
1991 MAR	.	1.000	.	.	.	.	.	.
1991 APR	.	1.000	.	.	.	.	.	.
1991 MAY	.	1.300	.	.	.	.	.	.
1991 JUN	.	1.000	.	.	.	.	.	.
1991 JUL	.	1.100	.	.	.	.	.	.
1991 AUG	.	.	1.600	.	.	2.100	.	.
1991 SEP	1.300	.	.	.700	.500	.	.800	1.200
1991 OCT	.	.	1.600	.800	.500	1.700	.800	1.400
1991 NOV	.900	.	.	.	.	.	.	.
1992 MAR	.900	.	.	.	.	.	.	.
1992 APR	.	.800	1.600	.900	.300 <T	1.400	.700	1.300
1992 AUG	.800	.	.	.	.	.	.	.
1992 OCT	.	.700	1.900	.800	.700	.	.900	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1.0		GUIDELINE = 400 (F2)			
1991 JAN	896	.	.	.	.	.	.	652
1991 FEB	884	.	.	.	.	.	.	676
1991 MAR	875	.	.	.	.	.	.	664
1991 APR	878	.	.	.	.	.	.	650
1991 MAY	841	.	.	.	.	.	.	593
1991 JUN	852	.	.	.	.	.	.	586
1991 JUL	900	.	.	.	.	.	.	671
1991 AUG	.	1227	.	.	792	780	.	.
1991 SEP	.	.	1390	1132	.	.	1217	.
1991 NOV	.	.	1370	1193	892	779	1262	.
1992 MAY	874	1140	1221	1093	.	752	1134	.
DISS ORG CARBON (MG/L)			DET'N LIMIT = 0.10		GUIDELINE = 5.0 (A3)			
1991 JAN	.900	.	.	.	.	.	.	1.100
1991 FEB	.700	.	.	.	.	.	.	.700
1991 MAR	.700	.	.	.	.	.	.	1.300
1991 APR	.600	.	.	.	.	.	.	1.100
1991 MAY	1.900	.	.	.	.	.	.	1.300
1991 JUN	.700	.	.	.	.	.	.	1.000
1991 JUL	.600	.	.	.	.	.	.	.800
1991 AUG	.	1.000	.	.	1.700	1.000	.	.
1991 SEP	.	.	1.100	.700	.	.	1.400	.
1991 NOV	.	.	1.200	.700	1.800	.900	1.400	.
1992 MAY	.800	1.000	1.200	.900	.	1.200	1.700	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1.0		GUIDELINE = 400 (F2)			
1991 JAN	813	896	972	746	820	.	.	.
1991 FEB	796	879	748	723	802	817	.	.
1991 MAR	811	879	732	726	811	809	.	.
1991 APR	802	872	746	638	796	799	.	.
1991 MAY	744	849	626	602	755	750	.	.
1991 JUN	631	848	646	618	633	644	.	.
1991 JUL	778	914	682	661	754	688	.	.
1991 AUG	.	.	636	637	769	779	.	.
1991 OCT	.	.	.	.	757	767	.	.
1992 APR	703	.	.	.	831	762	.	.
1992 MAY	.	879	.	.	.	.	.	.
1992 OCT	910	.	.	.	762	762	.	.
DISS ORG CARBON (MG/L)			DET'N LIMIT = 0.10		GUIDELINE = 5.0 (A3)			
1991 JAN	1.200	1.100	1.300	1.000	1.300	.	.	.
1991 FEB	.900	.600	.800	.800	1.000	1.000	.	.
1991 MAR	1.000	.800	1.100	1.200	1.000	1.100	.	.
1991 APR	1.100	.700	1.000	.900	1.200	1.300	.	.
1991 MAY	1.800	1.100	5.600	2.000	.900	1.000	.	.
1991 JUN	1.000	.600	1.000	1.000	.900	1.200	.	.
1991 JUL	.900	.600	.900	.800	.900	.900	.	.
1991 AUG	.	.	1.000	.800	1.000	1.100	.	.
1991 OCT	.	.	.	.	1.100	1.100	.	.
1992 APR	.900	.	.	.	1.200	1.000	.	.
1992 MAY	.	.600	.	.	.	.	.	.
1992 OCT	.700	.	.	.	1.400	1.400	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
FLUORIDE (MG/L)			DET'N LIMIT = 0.01		GUIDELINE = 1.5 (A1)			
1991 JAN	.120	.	.	.	.	.	.	.
1991 FEB	.140	.	.	.	.	.	.	.
1991 MAR	.120	.	.	.	.	.	.	.
1991 APR	.120	.	.	.	.	.	.	.
1991 MAY	.100	.	.	.	.	.	.	.
1991 JUN	.120	.	.	.	.	.	.	.
1991 JUL	.140	.	.	.	.	.	.	.
1991 AUG	.	.080	.	.	.	.	.	.040 <T
1991 SEP	.	.	.160	.280	.	!RE	.520	.
1991 OCT	.	.	.	.	.140	.	.	.
1991 NOV	.	.	!RE	.260	.180	.060	.520	.
1992 MAR	.	.	.140	.200	.140	.100	.460	.
1992 AUG	.	.100	.160	.220	.120	.080	.380	.
HARDNESS (MG/L)			DET'N LIMIT = 0.5		GUIDELINE = 80-100 (A4)			
1991 JAN	367.800	.	.	.	.	.	.	.
1991 FEB	367.000	.	.	.	.	.	.	.
1991 MAR	361.000	.	.	.	.	.	.	.
1991 APR	351.000	.	.	.	.	.	.	.
1991 MAY	328.300	.	.	.	.	.	.	.
1991 JUN	319.000	.	.	.	.	.	.	.
1991 JUL	357.000	.	.	.	.	.	.	.
1991 AUG	.	262.300	.	.	.	.	.	482.900
1991 SEP	.	.	384.000	392.000	.	!RE	396.000	.
1991 OCT	.	.	.	.	377.600	.	.	.
1991 NOV	.	.	!RE	375.800	364.100	332.600	392.100	.
1992 MAR	.	.	377.000	381.000	389.000	343.000	392.000	.
1992 AUG	.	279.000	373.000	397.000	394.000	367.000	378.000	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
FLUORIDE (MG/L)			DET'N LIMIT = 0.01		GUIDELINE = 1.5 (A1)			
1991 JAN	.	.100	.	.	.	.	.	.
1991 FEB	.	.080	.	.	.	.	.	.
1991 MAR	.	.080	.	.	.	.	.	.
1991 APR	.	.080	.	.	.	.	.	.
1991 MAY	.	.100	.	.	.	.	.	.
1991 JUN	.	.100	.	.	.	.	.	.
1991 JUL	.	.100	.	.	.	.	.	.
1991 AUG	.	.	.080	.	.	.220	.	.
1991 SEP	.120	.	.	.320	.820	.	.240	.140
1991 OCT	.	.	.080	.300	.800	.180	.200	.120
1991 NOV	.120	.	.	.	.	.	.	.
1992 MAR	.080	.	.	.	.	.	.	.
1992 APR	.	.080	.080	.320	.780	.180	.220	.120
1992 AUG	.100	.	.	.	.	.	.	.
1992 OCT	.	.680	.080	.280	.740	.	.220	.
HARDNESS (MG/L)			DET'N LIMIT = 0.5		GUIDELINE = 80-100 (A4)			
1991 JAN	.	398.500	.	.	.	.	.	.
1991 FEB	.	398.000	.	.	.	.	.	.
1991 MAR	.	372.000	.	.	.	.	.	.
1991 APR	.	331.700	.	.	.	.	.	.
1991 MAY	.	370.900	.	.	.	.	.	.
1991 JUN	.	338.000	.	.	.	.	.	.
1991 JUL	.	359.000	.	.	.	.	.	.
1991 AUG	.	.	379.100	.	.	365.100	.	.
1991 SEP	416.000	.	.	395.000	374.000	.	522.000	424.000
1991 OCT	.	.	369.100	380.800	352.200	345.400	459.900	367.300
1991 NOV	384.400	.	.	.	.	.	.	.
1992 MAR	424.000	.	.	.	.	.	.	.
1992 APR	.	381.000	376.000	410.000	370.000	344.000	528.000	443.000
1992 AUG	390.000	.	.	.	.	.	.	.
1992 OCT	.	430.600	381.250	424.960	376.860	.	520.800	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
FLUORIDE (MG/L)			DET'N LIMIT = 0.01		GUIDELINE = 1.5 (A1)			
1991 JAN	.680	.	.	.	.	.	.	.120
1991 FEB	.680	.	.	.	.	.	.	.120
1991 MAR	.660	.	.	.	.	.	.	.120
1991 APR	.660	.	.	.	.	.	.	.120
1991 MAY	.620	.	.	.	.	.	.	.100
1991 JUN	.680	.	.	.	.	.	.	.100
1991 JUL	.620	.	.	.	.	.	.	.120
1991 AUG	.	.360	.	.	.100	.080	.	.
1991 SEP	.	.	.160	.260	.	.	.520	.
1991 NOV	.	.	.220	.260	.080	.080	.520	.
1992 MAY	.680	.160	.200	.220	.	.080	.460	.
HARDNESS (MG/L)			DET'N LIMIT = 0.5		GUIDELINE = 80-100 (A4)			
1991 JAN	442.200	.	.	.	.	.	.	356.800
1991 FEB	423.000	.	.	.	.	.	.	365.000
1991 MAR	414.000	.	.	.	.	.	.	357.000
1991 APR	352.100	.	.	.	.	.	.	330.400
1991 MAY	402.700	.	.	.	.	.	.	330.300
1991 JUN	290.500	.	.	.	.	.	.	324.000
1991 JUL	407.000	.	.	.	.	.	.	346.000
1991 AUG	.	481.200	.	.	374.600	365.300	.	.
1991 SEP	.	.	514.900	511.000	.	.	510.000	.
1991 NOV	.	.	458.700	522.800	392.400	331.300	501.900	.
1992 MAY	350.000	368.000	426.000	481.000	.	329.000	468.900	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
FLUORIDE (MG/L)			DET'N LIMIT = 0.01		GUIDELINE = 1.5 (A1)			
1991 JAN	.220	.680	.260	.220	.220	.	.	.
1991 FEB	.180	.680	.220	.240	.180	.180	.	.
1991 MAR	.220	.680	.240	.240	.220	.220	.	.
1991 APR	.200	.660	.220	.120	.200	.200	.	.
1991 MAY	.180	.660	.140	.100	.180	.180	.	.
1991 JUN	.120	.680	.200	.140	.120	.120	.	.
1991 JUL	.120	.680	.140	.120	.160	.140	.	.
1991 AUG	.	.	.080	.080	.100	.100	.	.
1991 OCT	.	.	.	.	.120	.140	.	.
1992 APR	.160	.	.	.	.180	.120	.	.
1992 MAY	.	.680	.	.	.	.	.	.
1992 OCT	.640	.	.	.	.120	.140	.	.
HARDNESS (MG/L)			DET'N LIMIT = 0.5		GUIDELINE = 80-100 (A4)			
1991 JAN	405.100	435.900	462.900	382.500	410.600	.	.	.
1991 FEB	391.000	422.000	380.000	369.000	399.000	406.000	.	.
1991 MAR	400.000	426.000	377.000	372.000	387.000	406.000	.	.
1991 APR	361.700	350.000	350.700	322.200	367.700	367.700	.	.
1991 MAY	361.100	372.200	338.300	335.500	371.600	370.200	.	.
1991 JUN	338.000	359.000	346.000	336.000	340.700	349.000	.	.
1991 JUL	369.000	402.600	350.000	342.000	366.000	353.000	.	.
1991 AUG	.	.	316.400	316.100	362.300	365.000	.	.
1991 OCT	.	.	.	.	351.200	360.600	.	.
1992 APR	363.000	.	.	.	389.000	379.800	.	.
1992 MAY	.	312.000	.	.	.	.	.	.
1992 OCT	430.280	.	.	.	358.380	371.200	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
IONCAL (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
1991 JAN	4.891	.	.	.	.	.	.	.
1991 FEB	.427	.	.	.	.	.	.	.
1991 MAR	1.080	.	.	.	.	.	.	.
1991 APR	1.579	.	.	.	.	.	.	.
1991 MAY	2.045 NAF	.	.	.	.	.	.	.
1991 JUN	1.750 NAF	.	.	.	.	.	.	.
1991 JUL	1.483	.	.	.	.	.	.	.
1991 AUG	.000 NAF	.303	.	.	.	.	.	7.265
1991 SEP	.	.	.998 NAF	.697 NAF	.	.000 NAF	2.938 NAF	.
1991 OCT	.	.	.	.	4.703	.	.	.
1991 NOV	.	.	.000 NAF	3.657 NAF	4.814 NAF	2.595 NAF	4.095 NAF	.
1992 MAR	.	.	2.058	.276	.076	2.978	4.223	.
1992 AUG	.	2.752 NAF	.182 NAF	2.540 NAF	2.899 NAF	1.609 NAF	1.853 NAF	.
POTASSIUM (MG/L)			DET'N LIMIT = 0.01		GUIDELINE = 10 (F2)			
1991 JAN	1.760	.	.	.	.	.	.	.
1991 FEB	1.850	.	.	.	.	.	.	.
1991 MAR	1.750	.	.	.	.	.	.	.
1991 APR	1.800	.	.	.	.	.	.	.
1991 MAY	1.560	.	.	.	.	.	.	.
1991 JUN	1.650	.	.	.	.	.	.	.
1991 JUL	1.600	.	.	.	.	.	.	.
1991 AUG	.	1.190	.	.	.	.	.	2.170
1991 SEP	.	.	1.850	1.700	.	!RE	2.200	.
1991 OCT	.	.	.	.	1.750	.	.	.
1991 NOV	.	.	!RE	1.680	1.770	1.780	2.130	.
1992 MAR	.	.	1.930	1.740	1.850	2.170	2.150	.
1992 AUG	.	1.190	1.750	1.780	1.840	2.210	2.060	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
IONCAL (OMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
1991 JAN	.	4.650	.	.	.	.	.	.
1991 FEB	.	.762	.	.	.	.	.	.
1991 MAR	.	3.590	.	.	.	.	.	.
1991 APR	.	4.087	.	.	.	.	.	.
1991 MAY	.	4.528 NAF	.	.	.	.	.	.
1991 JUN	.	4.706 NAF	.	.	.	.	.	.
1991 JUL	.	4.472	.	.	.	.	.	.
1991 AUG	.	.	2.159	.	.	2.234	.	.
1991 SEP	2.719 NAF	.	.	3.868 NAF	3.989 NAF	.	2.822 NAF	2.126 NAF
1991 OCT	.	.	1.720	4.041	3.732	4.408	4.728	4.044
1991 NOV	4.737 NAF	.	.	.	.	.	.	.
1992 MAR	4.161	.	.	.	.	.	.	.
1992 APR	.	3.471 NAF	.719 NAF	1.831 NAF	1.767 NAF	2.209 NAF	1.494 NAF	1.074 NAF
1992 AUG	1.835 NAF	.	.	.	.	.	.	.
1992 OCT	.	1.071	.622	2.302	.318	.	4.690	.
POTASSIUM (MG/L)			DET'N LIMIT = 0.01		GUIDELINE = 10 (F2)			
1991 JAN	.	1.620	.	.	.	.	.	.
1991 FEB	.	1.600	.	.	.	.	.	.
1991 MAR	.	1.700	.	.	.	.	.	.
1991 APR	.	1.470	.	.	.	.	.	.
1991 MAY	.	1.490	.	.	.	.	.	.
1991 JUN	.	1.550	.	.	.	.	.	.
1991 JUL	.	1.500	.	.	.	.	.	.
1991 AUG	.	.	1.330	.	.	1.450	.	.
1991 SEP	2.700	.	.	1.750	1.500	.	2.550	1.950
1991 OCT	.	.	1.400	1.760	1.460	1.450	2.450	1.980
1991 NOV	2.590	.	.	.	.	.	.	.
1992 MAR	2.800	.	.	.	.	.	.	.
1992 APR	.	1.630	1.450	1.760	1.470	1.340	2.600	2.190
1992 AUG	2.910	.	.	.	.	.	.	.
1992 OCT	.	1.830	1.525	1.748	1.507	.	2.694	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
IONCAL (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
1991 JAN	4.330	.	.	.	.	.	.	4.455
1991 FEB	.564	.	.	.	.	.	.	1.341
1991 MAR	1.647	.	.	.	.	.	.	1.161
1991 APR	4.494	.	.	.	.	.	.	5.221
1991 MAY	3.190 NAF	.	.	.	.	.	.	1.001 NAF
1991 JUN	2.426	.	.	.	.	.	.	1.376 NAF
1991 JUL	.072	.	.	.	.	.	.	.214
1991 AUG	.	.010	.	.	1.516	1.494	.	.000 NAF
1991 SEP	.	.	4.533 NAF	4.575	.	.	3.037 NAF	.
1991 NOV	.	.	4.335 NAF	2.961 NAF	3.866 NAF	4.192 NAF	1.779 NAF	.
1992 MAY	6.881	4.497 NAF	4.817 NAF	4.401 NAF	.	4.683 NAF	4.267 NAF	.
POTASSIUM (MG/L)			DET'N LIMIT = 0.01		GUIDELINE = 10 (F2)			
1991 JAN	1.830	.	.	.	.	.	.	1.830
1991 FEB	1.750	.	.	.	.	.	.	1.900
1991 MAR	1.750	.	.	.	.	.	.	1.750
1991 APR	1.690	.	.	.	.	.	.	1.700
1991 MAY	1.600	.	.	.	.	.	.	1.630
1991 JUN	1.700	.	.	.	.	.	.	1.700
1991 JUL	1.550	.	.	.	.	.	.	1.550
1991 AUG	.	2.820	.	.	1.280	.990	.	.
1991 SEP	.	.	3.250	2.150	.	.	3.400	.
1991 NOV	.	.	3.080	2.000	1.280	.860	3.280	.
1992 MAY	1.715	3.027	3.073	2.102	.	.952	3.225	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
IONCAL (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
1991 JAN	4.950	3.665	4.673	5.123	4.595	.	.	.
1991 FEB	1.347	1.834	.496	.569	.127	.116	.	.
1991 MAR	.564	.395	.833	1.579	3.071	.828	.	.
1991 APR	4.881	3.952	3.931	5.093	3.985	3.719	.	.
1991 MAY	3.382 NAF	4.285 NAF	1.985 NAF	2.708 NAF	1.483 NAF	2.066 NAF	.	.
1991 JUN	2.998 NAF	4.118	.912 NAF	.526 NAF	2.741 NAF	1.512 NAF	.	.
1991 JUL	.821	2.591	.024	1.068	.855	.963	.	.
1991 AUG	.	.	6.356	6.714	2.445	2.427	.	.
1991 OCT	.	.	.	.	2.709	1.660	.	.
1992 APR	1.902 NAF	.	.	.	1.269 NAF	4.921 NAF	.	.
1992 MAY	.	4.399 NAF	.	.	.	.	.	.
1992 OCT	1.301	.	.	.	.925	1.494	.	.
POTASSIUM (MG/L)			DET'N LIMIT = 0.01		GUIDELINE = 10 (F2)			
1991 JAN	2.090	1.810	2.270	1.930	2.050	.	.	.
1991 FEB	2.000	1.750	1.950	1.950	1.950	1.950	.	.
1991 MAR	2.100	1.800	1.950	1.900	2.100	2.100	.	.
1991 APR	1.890	1.630	1.880	1.640	1.820	1.810	.	.
1991 MAY	1.710	1.620	1.720	1.590	1.700	1.710	.	.
1991 JUN	1.600	1.650	1.650	1.600	1.550	1.500	.	.
1991 JUL	1.800	1.700	1.650	1.650	1.750	1.650	.	.
1991 AUG	.	.	1.530	1.530	1.180	1.050	.	.
1991 OCT	.	.	.	.	1.780	1.800	.	.
1992 APR	1.800	.	.	.	2.070	2.120	.	.
1992 MAY	.	1.711	.	.	.	.	.	.
1992 OCT	1.804	.	.	.	2.676	2.016	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
1991 JAN	1.186	.	.	.	.	.	.	.
1991 FEB	1.087	.	.	.	.	.	.	.
1991 MAR	1.139	.	.	.	.	.	.	.
1991 APR	1.025	.	.	.	.	.	.	.
1991 MAY	.974	.	.	.	.	.	.	.
1991 JUN	.844	.	.	.	.	.	.	.
1991 JUL	1.116	.	.	.	.	.	.	.
1991 AUG	.	1.023	.	.	.	.	.	1.197
1991 SEP	.	.	1.236	1.236	.	.	1.004	.
1991 OCT	.	.	.	.	1.060	.	.	.
1991 NOV	.	.	.	1.059	1.013	.955	.957	.
1992 MAR	.	.	1.112	1.055	1.130	1.046	1.054	.
1992 AUG	.	1.293 NAF	1.264 NAF	1.307 NAF	1.292 NAF	1.322 NAF	1.228 NAF	.
MAGNESIUM (MG/L)			DET'N LIMIT = 0.1		GUIDELINE = 30.0 (F2)			
1991 JAN	30.850	.	.	.	.	.	.	.
1991 FEB	29.200	.	.	.	.	.	.	.
1991 MAR	28.800	.	.	.	.	.	.	.
1991 APR	28.100	.	.	.	.	.	.	.
1991 MAY	26.450	.	.	.	.	.	.	.
1991 JUN	25.400	.	.	.	.	.	.	.
1991 JUL	29.200	.	.	.	.	.	.	.
1991 AUG	.	20.550	.	.	.	.	.	33.600
1991 SEP	.	.	29.300	31.100	.	IRE	35.200	.
1991 OCT	.	.	.	.	29.150	.	.	.
1991 NOV	.	.	IRE	29.950	29.500	30.000	35.750	.
1992 MAR	.	.	30.100	30.600	29.600	31.800	34.300	.
1992 AUG	.	22.000	29.600	31.400	29.300	31.500	32.000	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
1991 JAN	.	1.195	.	.	.	.	.	.
1991 FEB	.	1.046	.	.	.	.	.	.
1991 MAR	.	1.107	.	.	.	.	.	.
1991 APR	.	.862	.	.	.	.	.	.
1991 MAY	.	.999	.	.	.	.	.	.
1991 JUN	.	.712	.	.	.	.	.	.
1991 JUL	.	1.088	.	.	.	.	.	.
1991 AUG	.	.	1.064	.	.	.984	.	.
1991 SEP	1.089	.	.	1.062	1.018	.	1.211	1.319
1991 OCT	.	.	1.106	1.046	1.131	1.071	1.114	1.026
1991 NOV	.929	.	.	.	.	.	.	.
1992 MAR	1.146	.	.	.	.	.	.	.
1992 APR	.	1.168 NAF	1.361 NAF	1.112 NAF	1.090 NAF	1.110 NAF	1.286 NAF	1.310 NAF
1992 AUG	1.130 NAF	.	.	.	.	.	.	.
1992 OCT	.	1.062	1.042	1.026	1.071	.	1.074	.
MAGNESIUM (MG/L)			DET'N LIMIT = 0.1		GUIDELINE = 30.0 (F2)			
1991 JAN	.	32.350	.	.	.	.	.	.
1991 FEB	.	32.400	.	.	.	.	.	.
1991 MAR	.	31.400	.	.	.	.	.	.
1991 APR	.	30.550	.	.	.	.	.	.
1991 MAY	.	30.450	.	.	.	.	.	.
1991 JUN	.	31.000	.	.	.	.	.	.
1991 JUL	.	32.800	.	.	.	.	.	.
1991 AUG	.	.	32.850	.	.	30.850	.	.
1991 SEP	34.100	.	.	38.800	33.300	.	41.700	37.400
1991 OCT	.	.	32.450	38.150	32.700	30.050	40.950	34.900
1991 NOV	34.150	.	.	.	.	.	.	.
1992 MAR	34.300	.	.	.	.	.	.	.
1992 APR	.	33.000	33.700	39.700	33.500	31.600	42.000	39.000
1992 AUG	33.900	.	.	.	.	.	.	.
1992 OCT	.	37.920	33.660	40.020	33.720	.	40.920	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCD WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
1991 JAN	1.172	.	.	.	.	.	.	1.139
1991 FEB	.996	.	.	.	.	.	.	1.060
1991 MAR	1.100	.	.	.	.	.	.	1.148
1991 APR	.782	.	.	.	.	.	.	1.015
1991 MAY	.901	.	.	.	.	.	.	.974
1991 JUN	.204	.	.	.	.	.	.	.866
1991 JUL	1.066	.	.	.	.	.	.	1.175
1991 AUG	.	1.079	.	.	1.032	1.000	.	.
1991 SEP	.	.	1.227	1.171	.	.	1.218	.
1991 NOV	.	.	1.005	1.056	1.001	.936	1.086	.
1992 MAY	1.137	1.206	1.333	1.274	.	1.141	1.352	.
MAGNESIUM (MG/L)			DET'N LIMIT = 0.1		GUIDELINE = 30.0 (F2)			
1991 JAN	38.550	.	.	.	.	.	.	29.250
1991 FEB	37.600	.	.	.	.	.	.	29.400
1991 MAR	36.800	.	.	.	.	.	.	28.800
1991 APR	36.600	.	.	.	.	.	.	27.100
1991 MAY	35.050	.	.	.	.	.	.	26.750
1991 JUN	39.300	.	.	.	.	.	.	25.800
1991 JUL	37.000	.	.	.	.	.	.	28.700
1991 AUG	.	38.750	.	.	33.750	31.850	.	.
1991 SEP	.	.	37.300	38.600	.	.	38.200	.
1991 NOV	.	.	36.900	40.200	38.550	31.400	38.400	.
1992 MAY	34.260	35.820	34.860	39.240	.	31.740	35.340	.

TABLE 4
ORINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A			
1991 JAN	1.191	1.115	1.166	1.144	1.255	.	.	.
1991 FEB	1.134	1.068	1.076	1.068	1.212	1.201	.	.
1991 MAR	1.188	1.128	1.193	1.184	1.207	1.241	.	.
1991 APR	1.048	.816	1.027	1.008	1.072	1.066	.	.
1991 MAY	1.041	.854	1.001	1.040	1.007	1.118	.	.
1991 JUN	.931	.556	.888	.861	.952	1.048	.	.
1991 JUL	1.210	1.146	1.197	1.174	1.184	1.226	.	.
1991 AUG	.	.	1.165	1.197	1.277	1.206	.	.
1991 OCT	.	.	.	.	1.219	1.293	.	.
1992 APR	1.370 NAF	.	.	.	1.426 NAF	1.150 NAF	.	.
1992 MAY	.	.956	.	.	.	.	.	.
1992 OCT	1.103	.	.	.	1.185	1.194	.	.
MAGNESIUM (MG/L)			DET'N LIMIT = 0.1		GUIDELINE = 30.0 (F2)			
1991 JAN	32.150	38.150	36.050	32.150	33.700	.	.	.
1991 FEB	31.400	38.300	31.800	31.600	32.400	32.600	.	.
1991 MAR	31.400	37.200	30.500	30.300	28.000	32.100	.	.
1991 APR	30.900	35.550	29.200	26.950	30.300	30.200	.	.
1991 MAY	28.850	36.600	27.000	26.650	29.650	29.750	.	.
1991 JUN	26.700	36.500	27.800	26.900	27.300	28.000	.	.
1991 JUL	29.600	37.400	29.200	28.600	29.700	28.500	.	.
1991 AUG	.	.	26.350	26.300	31.000	30.650	.	.
1991 OCT	.	.	.	.	28.600	28.800	.	.
1992 APR	30.100	.	.	.	32.200	33.200	.	.
1992 MAY	.	33.120	.	.	.	.	.	.
1992 OCT	38.400	.	.	.	29.340	29.580	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
SODIUM (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 200 (A4)			
1991 JAN	13.900	.	.	.	.	.	.	.
1991 FEB	13.200	.	.	.	.	.	.	.
1991 MAR	13.000	.	.	.	.	.	.	.
1991 APR	11.600	.	.	.	.	.	.	.
1991 MAY	7.200	.	.	.	.	.	.	.
1991 JUN	9.000	.	.	.	.	.	.	.
1991 JUL	12.000	.	.	.	.	.	.	.
1991 AUG	.	11.200	.	.	.	.	.	263.500
1991 SEP	.	.	18.400	11.800	.	!RE	36.600	.
1991 OCT	.	.	.	.	19.400	.	.	.
1991 NOV	.	.	!RE	13.400	20.900	7.800	36.800	.
1992 MAR	.	.	20.100	13.700	21.900	13.900	37.900	.
1992 AUG	.	12.400	16.900	13.700	21.200	23.000	39.700	.
AMMONIUM TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = 0.05 (F2)			
1991 JAN	.010	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	.010	.	.	.	.	.	.	.
1991 JUN	.006 <T	.	.	.	.	.	.	.
1991 JUL	.006 <T	.	.	.	.	.	.	.
1991 AUG	.	.014	.	.	.	.	.	.006 <T
1991 SEP	.	.	.008 <T	.004 <T	.	!RE	.158	.
1991 OCT	.	.	.	.	.002 <T	.	.	.
1991 NOV	.	.	!RE	.002 <T	.002 <T	.002 <T	.152	.
1992 MAR	.	.	.004 <T	.004 <T	.004 <T	.004 <T	.136	.
1992 AUG	.	.018	.006 <T	.010	.008 <T	.010	.064	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
SODIUM (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 200 (A4)			
1991 JAN	.	16.700	.	.	.	.	.	.
1991 FEB	.	17.600	.	.	.	.	.	.
1991 MAR	.	19.000	.	.	.	.	.	.
1991 APR	.	18.400	.	.	.	.	.	.
1991 MAY	.	19.100	.	.	.	.	.	.
1991 JUN	.	20.200	.	.	.	.	.	.
1991 JUL	.	18.000	.	.	.	.	.	.
1991 AUG	.	.	8.200	.	.	13.600	.	.
1991 SEP	88.400	.	.	19.200	17.200	.	71.400	16.600
1991 OCT	.	.	7.500	19.600	17.900	12.000	72.000	16.700
1991 NOV	79.900	.	.	.	.	.	.	.
1992 MAR	102.200	.	.	.	.	.	.	.
1992 APR	.	18.100	8.460	20.400	18.900	10.100	68.900	21.200
1992 AUG	113.700	.	.	.	.	.	.	.
1992 OCT	.	38.580	9.560	20.280	19.110	.	75.660	.
AMMONIUM TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = 0.05 (F2)			
1991 JAN	.	.030	.	.	.	.	.	.
1991 FEB	.	.022	.	.	.	.	.	.
1991 MAR	.	.030	.	.	.	.	.	.
1991 APR	.	.032	.	.	.	.	.	.
1991 MAY	.	.018	.	.	.	.	.	.
1991 JUN	.	.030	.	.	.	.	.	.
1991 JUL	.	.030	.	.	.	.	.	.
1991 AUG	.	.	.002 <T	.	.	.170	.	.
1991 SEP	.032	.	.	.060	.024	.	.002 <T	.078
1991 OCT	.	.	BDL	.054	.018	.048	BDL	.014
1991 NOV	.056	.	.	.	.	.	.	.
1992 MAR	.028	.	.	.	.	.	.	.
1992 APR	.	.028	.006 <T	.062	.020	.052	.002 <T	.050
1992 AUG	.036	.	.	.	.	.	.	.
1992 OCT	.	.052	.012	.062	.020	.	.008 <T	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
SODIUM (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 200 (A4)			
1991 JAN	34.300	.	.	.	.	.	.	11.500
1991 FEB	33.200	.	.	.	.	.	.	13.600
1991 MAR	35.800	.	.	.	.	.	.	12.600
1991 APR	35.800	.	.	.	.	.	.	11.000
1991 MAY	33.400	.	.	.	.	.	.	7.500
1991 JUN	33.400	.	.	.	.	.	.	8.800
1991 JUL	33.200	.	.	.	.	.	.	11.400
1991 AUG	.	74.500	.	.	25.800	26.600	.	.
1991 SEP	.	.	76.600	52.400	.	.	70.200	.
1991 NOV	.	.	96.200	52.000	32.100	27.400	67.800	.
1992 MAY	34.500	76.020	86.460	58.440	.	30.420	71.220	.
AMMONIUM TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = 0.05 (F2)			
1991 JAN	.058	.	.	.	.	.	.	.010
1991 FEB	.042	.	.	.	.	.	.	BDL
1991 MAR	.050	.	.	.	.	.	.	BDL
1991 APR	.052	.	.	.	.	.	.	.002 <T
1991 MAY	.046	.	.	.	.	.	.	.008 <T
1991 JUN	.056	.	.	.	.	.	.	.004 <T
1991 JUL	.024	.	.	.	.	.	.	.004 <T
1991 AUG	.	BDL	.	.	.078	.104	.	.
1991 SEP	.	.	BDL	.072	.	.	.052	.
1991 NOV	.	.	BDL	.066	.044	.114	.058	.
1992 MAY	.052	.004 <T	.002 <T	.066	.	.102	.042	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD	DIST. SYSTEM VI[illegible] RD SI[illegible]	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
SODIUM (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 200 (A4)			
1991 JAN	31.400	34.000	41.600	23.900	31.900	.	.	.
1991 FEB	26.800	30.600	20.000	19.200	27.400	27.400	.	.
1991 MAR	31.400	34.800	22.000	20.000	30.800	30.800	.	.
1991 APR	32.600	35.200	25.500	11.800	31.000	32.300	.	.
1991 MAY	28.700	35.600	10.900	7.600	30.300	30.300	.	.
1991 JUN	11.800	33.600	14.800	12.200	12.200	13.800	.	.
1991 JUL	26.200	34.400	13.000	11.000	22.200	14.200	.	.
1991 AUG	.	.	10.500	10.700	26.100	26.200	.	.
1991 OCT	.	.	.	.	23.800	24.600	.	.
1992 APR	15.000	.	.	.	35.300	30.500	.	.
1992 MAY	.	33.360	.	.	.	.	.	.
1992 OCT	38.760	.	.	.	30.480	30.060	.	.
AMMONIUM TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = 0.05 (F2)			
1991 JAN	.004 <T	.044	.012	.018	.008 <T	.	.	.
1991 FEB	BDL	.030	.032	.034	BDL	BDL	.	.
1991 MAR	BDL	.038	.042	.032	BDL	.008 <T	.	.
1991 APR	.002 <T	.032	.042	.008 <T	BDL	BDL	.	.
1991 MAY	BDL	.028	.012	.008 <T	BDL	BDL	.	.
1991 JUN	BDL	.038	.008 <T	.012	.002 <T	.014	.	.
1991 JUL	.004 <T	.030	.002 <T	.006 <T	.006 <T	.006 <T	.	.
1991 AUG	.	.	BDL	BDL	.082	.068	.	.
1991 OCT	.	.	.	.	BDL	BDL	.	.
1992 APR	BDL	.	.	.	.018	.040	.	.
1992 MAY	.	.006 <T	.	.	.	.	.	.
1992 OCT	.026	.	.	.	.004 <T	.002 <T	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.0 (A1)			
1991 JAN	.002 <T	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	.001 <T	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	.007	.	.	.	.	.	.002 <T
1991 SEP	.	.	BDL	BDL	.	IRE	.002 <T	.
1991 OCT	.	.	.	.	.001 <T	.	.	.
1991 NOV	.	.	IRE	.001 <T	.001 <T	.001 <T	.002 <T	.
1992 MAR	.	.	.002 <T	.002 <T	.002 <T	.002 <T	.004 <T	.
1992 AUG	.	.007	.001 <T	.002 <T	.001 <T	.001 <T	.006	.
NITRATE (TOTAL) (MG/L)			DET'N LIMIT = 0.005		GUIDELINE = 10.0 (A1)			
1991 JAN	2.560	.	.	.	.	.	.	.
1991 FEB	2.750	.	.	.	.	.	.	.
1991 MAR	3.160	.	.	.	.	.	.	.
1991 APR	2.970	.	.	.	.	.	.	.
1991 MAY	3.360	.	.	.	.	.	.	.
1991 JUN	3.570	.	.	.	.	.	.	.
1991 JUL	2.640	.	.	.	.	.	.	.
1991 AUG	.	.740	.	.	.	.	.	5.050
1991 SEP	.	.	2.340	1.600	.	IRE	.240	.
1991 OCT	.	.	.	.	1.280	.	.	.
1991 NOV	.	.	IRE	1.930	1.180	7.620	.215	.
1992 MAR	.	.	2.590	1.880	.585	6.560	.310	.
1992 AUG	.	.730	1.680	1.310	.535	7.420	.555	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.0 (A1)			
1991 JAN	.	.004 <T	.	.	.	.	.	.
1991 FEB	.	.001 <T	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	.001 <T	.	.	.	.	.	.
1991 MAY	.	.001 <T	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	.006	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	.001 <T	.	.
1991 SEP	BDL	.	.	.010	.003 <T	.	.001 <T	.001 <T
1991 OCT	.	.	.001 <T	.013	.005	.006	.003 <T	.001 <T
1991 NOV	.004 <T	.	.	.	.	.	.	.
1992 MAR	.002 <T	.	.	.	.	.	.	.
1992 APR	.	.004 <T	.002 <T	.010	.009	.006	.002 <T	.004 <T
1992 AUG	.002 <T	.	.	.	.	.	.	.
1992 OCT	.	.003 <T	.002 <T	.006	.007	.	.003 <T	.
NITRATE (TOTAL) (MG/L)			DET'N LIMIT = 0.005		GUIDELINE = 10.0 (A1)			
1991 JAN	.	.795	.	.	.	.	.	.
1991 FEB	.	.845	.	.	.	.	.	.
1991 MAR	.	.825	.	.	.	.	.	.
1991 APR	.	.770	.	.	.	.	.	.
1991 MAY	.	.875	.	.	.	.	.	.
1991 JUN	.	.930	.	.	.	.	.	.
1991 JUL	.	.860	.	.	.	.	.	.
1991 AUG	.	.	3.410	.	.	.010 <T	.	.
1991 SEP	.620	.	.	.865	.095	.	1.340	.150
1991 OCT	.	.	3.350	.845	.240	.545	1.770	.630
1991 NOV	.570	.	.	.	.	.	.	.
1992 MAR	.780	.	.	.	.	.	.	.
1992 APR	.	.895	3.240	.825	.150	.170	.765	.175
1992 AUG	.790	.	.	.	.	.	.	.
1992 OCT	.	.365	3.490	1.070	.150	.	1.750	.

TABLE 4

ORINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.0 (A1)			
1991 JAN	.005	.	.	.	.	.	.	.001 <T
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	.001 <T	.	.	.	.	.	.	BDL
1991 APR	.002 <T	.	.	.	.	.	.	BDL
1991 MAY	.002 <T	.	.	.	.	.	.	.001 <T
1991 JUN	.001 <T	.	.	.	.	.	.	BDL
1991 JUL	.001 <T	.	.	.	.	.	.	BDL
1991 AUG	.	.029	.	.	.002 <T	.003 <T	.	.
1991 SEP	.	.	.016	.001 <T	.	.	.001 <T	.
1991 NOV	.	.	.042	.002 <T	.009	.002 <T	.001 <T	.
1992 MAY	.002 <T	.002 <T	.025	.003 <T	.	.003 <T	.002 <T	.
NITRATE (TOTAL) (MG/L)			DET'N LIMIT = 0.005		GUIDELINE = 10.0 (A1)			
1991 JAN	.290	.	.	.	.	.	.	2.900
1991 FEB	.300	.	.	.	.	.	.	2.880
1991 MAR	.340	.	.	.	.	.	.	3.100
1991 APR	.270	.	.	.	.	.	.	3.270
1991 MAY	.460	.	.	.	.	.	.	3.740
1991 JUN	.285	.	.	.	.	.	.	3.590
1991 JUL	.710	.	.	.	.	.	.	2.840
1991 AUG	.	4.330	.	.	.055	.025	.	.
1991 SEP	.	.	3.790	1.350	.	.	.325	.
1991 NOV	.	.	2.350	.965	.020 <T	.005 <T	.385	.
1992 MAY	.350	7.580	2.360	2.740	.	.050	1.330	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.0 (A1)			
1991 JAN	.001 <T	BDL	.001 <T	.002 <T	.002 <T	.	.	.
1991 FEB	BDL	BDL	.001 <T	BDL	BDL	.002 <T	.	.
1991 MAR	BDL	BDL	.001 <T	.001 <T	BDL	BDL	.	.
1991 APR	.001 <T	.002 <T	.002 <T	BDL	BDL	BDL	.	.
1991 MAY	BDL	.001 <T	BDL	.001 <T	BDL	BDL	.	.
1991 JUN	BDL	BDL	.010	.004 <T	BDL	BDL	.	.
1991 JUL	BDL	BDL	.002 <T	BDL	BDL	BDL	.	.
1991 AUG	.	.	BDL	BDL	.001 <T	.002 <T	.	.
1991 OCT	.	.	.	.	BDL	.001 <T	.	.
1992 APR	.001 <T	.	.	.	.003 <T	.001 <T	.	.
1992 MAY	.	.001 <T	.	.	.	.	.	.
1992 OCT	.001 <T	.	.	.	.001 <T	.002 <T	.	.
NITRATE (TOTAL) (MG/L)			DET'N LIMIT = 0.005		GUIDELINE = 10.0 (A1)			
1991 JAN	1.910	.315	1.960	2.610	1.750	.	.	.
1991 FEB	2.110	.350	2.300	2.540	1.[illegible]	1.830	.	.
1991 MAR	1.810	.335	2.300	2.310	1.786	1.780	.	.
1991 APR	2.090	.350	2.380	3.620	2.110	2.110	.	.
1991 MAY	2.310	.335	3.380	3.560	2.250	2.320	.	.
1991 JUN	2.870	.355	2.850	3.230	2.790	2.520	.	.
1991 JUL	2.360	.365	2.650	2.880	2.570	2.620	.	.
1991 AUG	.	.	2.750	2.750	.400	.525	.	.
1991 OCT	.	.	.	.	1.840	1.840	.	.
1992 APR	2.790	.	.	.	2.110	1.290	.	.
1992 MAY	.	.425	.	.	.	.	.	.
1992 OCT	.440	.	.	.	2.160	2.170	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = 0.02		GUIDELINE = N/A			
1991 JAN	.120	.	.	.	.	.	.	.
1991 FEB	.080 <T	.	.	.	.	.	.	.
1991 MAR	.160	.	.	.	.	.	.	.
1991 APR	.180	.	.	.	.	.	.	.
1991 MAY	.120	.	.	.	.	.	.	.
1991 JUN	.170	.	.	.	.	.	.	.
1991 JUL	.080 <T	.	.	.	.	.	.	.
1991 AUG	.	.530	.	.	.	.	.	.130
1991 SEP	.	.	.130	.100	.	!RE	.240	.
1991 OCT	.	.	.	.	.150	.	.	.
1991 NOV	.	.	!RE	.090 <T	.130	.140	.230	.
1992 MAR	.	.	.140	.100	.120	.140	.240	.
1992 AUG	.	.090 <T	.120	.070 <T	.560	.130	.170	.
PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5 (A4)			
1991 JAN	8.250	.	.	.	.	.	.	.
1991 FEB	8.130	.	.	.	.	.	.	.
1991 MAR	8.190	.	.	.	.	.	.	.
1991 APR	8.090	.	.	.	.	.	.	.
1991 MAY	8.060	.	.	.	.	.	.	.
1991 JUN	7.950	.	.	.	.	.	.	.
1991 JUL	8.190	.	.	.	.	.	.	.
1991 AUG	.	8.300	.	.	.	.	.	8.050
1991 SEP	.	.	8.260	8.260	.	!RE	8.080	.
1991 OCT	.	.	.	.	8.120	.	.	.
1991 NOV	.	.	!RE	8.110	8.090	8.060	8.060	.
1992 MAR	.	.	8.170	8.110	8.170	8.140	8.140	.
1992 AUG	.	8.500	8.320	8.340	8.310	8.360	8.310	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY W RAW	RKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = 0.02		GUIDELINE = N/A			
1991 JAN	.	.110	.	.	.	.	.	.
1991 FEB	.	.100	.	.	.	.	.	.
1991 MAR	.	.110	.	.	.	.	.	.
1991 APR	.	.220	.	.	.	.	.	.
1991 MAY	.	.110	.	.	.	.	.	.
1991 JUN	.	.110	.	.	.	.	.	.
1991 JUL	.	.080 <T	.	.	.	.	.	.
1991 AUG	.	.	.170	.	.	.280	.	.
1991 SEP	.150	.	.	.140	.080 <T	.	.130	.590
1991 OCT	.	.	.250	.170	.060 <T	.170	.100	.120
1991 NOV	.150	.	.	.	.	.	.	.
1992 MAR	.160	.	.	.	.	.	.	.
1992 APR	.	.090 <T	.220	.140	.060 <T	.150	.100	.140
1992 AUG	.170	.	.	.	.	.	.	.
1992 OCT	.	.120	.240	.150	.060 <T	.	.110	.
PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5 (A4)			
1991 JAN	.	8.170	.	.	.	.	.	.
1991 FEB	.	8.010	.	.	.	.	.	.
1991 MAR	.	8.110	.	.	.	.	.	.
1991 APR	.	8.000	.	.	.	.	.	.
1991 MAY	.	8.000	.	.	.	.	.	.
1991 JUN	.	7.830	.	.	.	.	.	.
1991 JUL	.	8.140	.	.	.	.	.	.
1991 AUG	.	.	8.110	.	.	8.050	.	.
1991 SEP	8.040	.	.	8.170	8.120	.	8.080	8.240
1991 OCT	.	.	8.180	8.190	8.280	8.190	8.120	8.110
1991 NOV	7.980	.	.	.	.	.	.	.
1992 MAR	8.120	.	.	.	.	.	.	.
1992 APR	.	8.200	8.420	8.210	8.230	8.250	8.180	8.230
1992 AUG	8.150	.	.	.	.	.	.	.
1992 OCT	.	8.060	8.090	8.090	8.170	.	7.970	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = 0.02		GUIDELINE = N/A			
1991 JAN	.150	.	.	.	.	.	.	.120
1991 FEB	.100	.	.	.	.	.	.	.090 <T
1991 MAR	.130	.	.	.	.	.	.	.140
1991 APR	.130	.	.	.	.	.	.	.150
1991 MAY	1.180	.	.	.	.	.	.	.090 <T
1991 JUN	.150	.	.	.	.	.	.	.140
1991 JUL	.080 <T	.	.	.	.	.	.	.200
1991 AUG	.	.110	.	.	.130	.160	.	.
1991 SEP	.	.	.140	.200	.	.	.210	.
1991 NOV	.	.	.150	.160	.170	.190	.190	.
1992 MAY	.120	.170	.170	.160	.	.200	.220	.
PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5 (A4)			
1991 JAN	8.160	.	.	.	.	.	.	8.210
1991 FEB	8.000	.	.	.	.	.	.	8.110
1991 MAR	8.110	.	.	.	.	.	.	8.200
1991 APR	7.990	.	.	.	.	.	.	8.110
1991 MAY	7.920	.	.	.	.	.	.	8.060
1991 JUN	7.800	.	.	.	.	.	.	7.960
1991 JUL	8.090	.	.	.	.	.	.	8.260
1991 AUG	.	7.970	.	.	8.050	8.020	.	.
1991 SEP	.	.	8.060	8.090	.	.	8.110	.
1991 NOV	.	.	7.950	7.960	7.980	8.050	8.000	.
1992 MAY	8.320	8.250	8.320	8.230	.	8.280	8.290	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = 0.02		GUIDELINE = N/A			
1991 JAN	.130	.140	.180	.170	.140	.	.	.
1991 FEB	.070 <T	.080 <T	.110	.130	.080 <T	.090 <T	.	.
1991 MAR	.110	.120	.180	.160	.120	.160	.	.
1991 APR	.130	.130	.220	.150	.150	.160	.	.
1991 MAY	.160	.540	.110	.100	.180	.160	.	.
1991 JUN	.140	.140	.280	.190	.160	.200	.	.
1991 JUL	.060 <T	.110	.080 <T	.150	.140	.060 <T	.	.
1991 AUG	.	.	.100	.110	.150	.180	.	.
1991 OCT	.	.	.	.	.120	.120	.	.
1992 APR	.160	.	.	.	.180	.180	.	.
1992 MAY	.	.080 <T	.	.	.	.	.	.
1992 OCT	.100	.	.	.	.160	.170	.	.
PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5 (A4)			
1991 JAN	8.180	8.110	8.110	8.200	8.250	.	.	.
1991 FEB	8.130	8.070	8.120	8.130	8.200	8.180	.	.
1991 MAR	8.170	8.120	8.240	8.230	8.190	8.220	.	.
1991 APR	8.100	8.020	8.120	8.120	8.110	8.100	.	.
1991 MAY	8.070	7.990	8.080	8.110	8.020	8.130	.	.
1991 JUN	8.000	7.830	7.970	7.950	8.020	8.100	.	.
1991 JUL	8.240	8.190	8.280	8.260	8.230	8.290	.	.
1991 AUG	.	.	8.290	8.320	8.300	8.220	.	.
1991 OCT	.	.	.	.	8.290	8.340	.	.
1992 APR	8.440	.	.	.	8.440	8.210	.	.
1992 MAY	.	8.360	.	.	.	.	.	.
1992 OCT	8.100	.	.	.	8.230	8.220	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
PHOSPHORUS FIL REACT (MG/L)			DET'N LIMIT = 0.0005		GUIDELINE = N/A			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	.001 <T	.	.	.	.	.	.	.
1991 MAR	.001 <T	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	.001 <T	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	.001 <T	.	.	.	.	.	.000 <T
1991 SEP	.	.	BDL	BDL	.	IRE	.001 <T	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	IRE	.000 <T	.000 <T	.002	.002 <T	.
1992 MAR	.	.	BDL	BDL	BDL	.003 <T	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = 0.40 (F2)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	.002 <T	.	.	.	.	.	.	.
1991 APR	.004 <T	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	.013	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	IRE	BDL	.
1991 OCT	.	.	.	.	.004 <T	.	.	.
1991 NOV	.	.	IRE	.002 <T	BDL	.003 <T	.003 <T	.
1992 MAR	.	.	BDL	BDL	.004 <T	.003 <T	.004 <T	.
1992 AUG	.	BDL	.010	.002 <T	.014	.006 <T	.002 <T	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	[illegible] PRETREATED	[illegible]LICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
PHOSPHORUS FIL REACT (MG/L)			DET'N LIMIT = 0.0005		GUIDELINE = N/A			
1991 JAN	.	.000 <T	.	.	.	.	.	.
1991 FEB	.	.002 <T	.	.	.	.	.	.
1991 MAR	.	.002 <T	.	.	.	.	.	.
1991 APR	.	.001 <T	.	.	.	.	.	.
1991 MAY	.	.001 <T	.	.	.	.	.	.
1991 JUN	.	.001 <T	.	.	.	.	.	.
1991 JUL	.	.000 <T	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	.001 <T	.	.
1991 SEP	.000 <T	.	.	.000 <T	BDL	.	.000 <T	.000 <T
1991 OCT	.	.	.000 <T	BDL	BDL	.000 <T	BDL	.000 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	.001 <T	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	.002 <T	.001 <T	BDL	BDL	.	.001 <T	.
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = 0.40 (F2)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	.005 <T	.	.	.	.	.	.
1991 APR	.	.016	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	.002 <T
1991 OCT	.	.	.003 <T	.003 <T	BDL	.003 <T	BDL	.003 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	.002 <T	BDL	BDL	.003 <T	BDL	BDL
1992 AUG	.002 <T	.	.	.	.	.	.	.
1992 OCT	.	.002 <T	BDL	BDL	.002 <T	.	.002 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

CHEMISTRY (LABORATORY)

PHOSPHORUS FIL REACT (MG/L) DET'N LIMIT = 0.0005 GUIDELINE = N/A

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
1991 JAN	BDL	.	.	.	.	.	.	.000 <T
1991 FEB	.001 <T	.	.	.	.	.	.	.001 <T
1991 MAR	.002 <T	.	.	.	.	.	.	.001 <T
1991 APR	.002 <T	.	.	.	.	.	.	.000 <T
1991 MAY	.000 <T	.	.	.	.	.	.	BDL
1991 JUN	.002 <T	.	.	.	.	.	.	.001 <T
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	.000 <T	.	.	BDL	.001 <T	.	.
1991 SEP	.	.	BDL	.001 <T	.	.	BDL	.
1991 NOV	.	.	.000 <T	.002	.000 <T	.001 <T	.000 <T	.
1992 MAY	.001 <T	.001 <T	BDL	.002 <T	.	BDL	BDL	.

PHOSPHORUS TOTAL (MG/L) DET'N LIMIT = 0.002 GUIDELINE = 0.40 (F2)

1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	.005 <T	.	.	.	.	.	.	.002 <T
1991 APR	.002 <T	.	.	.	.	.	.	.003 <T
1991 MAY	.002 <T	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	.002 <T
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	.002 <T	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	.002 <T	BDL	.
1992 MAY	.002 <T	.002 <T	.002 <T	.003 <T	.	.002 <T	.002 <T	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
CHEMISTRY (LABORATORY)						
PHOSPHORUS FIL PR[illegible])			DET'N LIMIT = 0.0005		GUIDELINE = N/A	
1991 JAN	BDL	.001 <T	.	.	.	.
1991 FEB	.001 <T	.002	.	.	.	.
1991 MAR	.001 <T	.002	.	.	.	.
1991 APR	.001 <T	.002 <T	.	.	.	.
1991 MAY	.001 <T	.002 <T	.	.	.	.
1991 JUN	.000 <T	.002 <T	.	.	.	.
1991 JUL	.000 <T	.002 <T	.	.	.	.
1992 APR	.001 <T	.	.	.	.	.
1992 MAY	.	.001 <T	.	.	.	.
1992 OCT	.002 <T	.	.	.	.	.
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = 0.40 (F2)	
1991 JAN	BDL	BDL	.	.	.	.
1991 FEB	BDL	BDL	.	.	.	.
1991 MAR	.004 <T	.008 <T	.	.	.	.
1991 APR	BDL	.003 <T	.	.	.	.
1991 MAY	.004 <T	BDL	.	.	.	.
1991 JUN	BDL	.002 <T	.	.	.	.
1991 JUL	BDL	BDL	.	.	.	.
1992 APR	.003 <T	.	.	.	.	.
1992 MAY	.	.002 <T	.	.	.	.
1992 OCT	BDL	.	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
RESIDUE FILTRATE (MG/L)			DET'N LIMIT = N/A		GUIDELINE = 500 (A3)			
1991 JAN	424.000	.	.	.	.	.	.	.
1991 FEB	447.000 CRO	.	.	.	.	.	.	.
1991 MAR	430.000 CRO	.	.	.	.	.	.	.
1991 APR	432.000 CRO	.	.	.	.	.	.	.
1991 MAY	385.000 CRO	.	.	.	.	.	.	.
1991 JUN	381.000 CRO	.	.	.	.	.	.	.
1991 JUL	445.000 CRO	.	.	.	.	.	.	.
1991 AUG	.	344.000 CRO	.	.	.	.	.	1200.000
1991 SEP	.	.	473.000 CRO	457.000 CRO	.	!RE	567.000	.
1991 OCT	.	.	.	.	517.000 CRO	.	.	.
1991 NOV	.	.	!RE	497.000 CRO	523.000 CRO	423.000 CRO	555.000	.
1992 MAR	.	.	506.000 CRO	491.000 CRO	587.000	452.000 CRO	670.000	.
1992 AUG	.	355.000 CRO	493.000 CRO	498.000 CRO	517.000 CRO	494.000 CRO	684.000	.
SULPHATE (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 500 (A3)			
1991 JAN	60.050	.	.	.	.	.	.	.
1991 FEB	66.880	.	.	.	.	.	.	.
1991 MAR	59.240	.	.	.	.	.	.	.
1991 APR	60.420	.	.	.	.	.	.	.
1991 MAY	36.220	.	.	.	.	.	.	.
1991 JUN	30.420	.	.	.	.	.	.	.
1991 JUL	59.240	.	.	.	.	.	.	.
1991 AUG	.	36.160	.	.	.	.	.	54.310
1991 SEP	.	.	95.950	109.520	.	!RE	132.560	.
1991 OCT	.	.	.	.	115.110	.	.	.
1991 NOV	.	.	!RE	105.210	99.080	30.050	141.460	.
1992 MAR	.	.	97.880	101.530	105.650	37.310	135.500	.
1992 AUG	.	24.270	88.730	105.870	94.690	34.110	108.490	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
RESIDUE FILTRATE (MG/L)			DET'N LIMIT = N/A		GUIDELINE = 500 (A3)			
1991 JAN	.	389.000	.	.	.	.	.	.
1991 FEB	.	482.000 CRO	.	.	.	.	.	.
1991 MAR	.	473.000 CRO	.	.	.	.	.	.
1991 APR	.	474.000 CRO	.	.	.	.	.	.
1991 MAY	.	467.000 CRO	.	.	.	.	.	.
1991 JUN	.	469.000 CRO	.	.	.	.	.	.
1991 JUL	.	487.000 CRO	.	.	.	.	.	.
1991 AUG	.	.	463.000 CRO	.	.	465.000 CRO	.	.
1991 SEP	667.000	.	.	511.000 CRO	476.000 CRO	.	790.000	499.000 CRO
1991 OCT	.	.	456.000 CRO	443.000	493.000 CRO	452.000 CRO	704.000	360.000
1991 NOV	573.000	.	.	.	.	.	.	.
1992 MAR	801.000	.	.	.	.	.	.	.
1992 APR	.	459.000 CRO	443.000 CRO	508.000 CRO	467.000 CRO	404.000 CRO	820.000	512.000
1992 AUG	862.000	.	.	.	.	.	.	.
1992 OCT	.	616.000	456.000 CRO	574.000	482.000 CRO	.	756.000	.
SULPHATE (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 500 (A3)			
1991 JAN	.	69.010	.	.	.	.	.	.
1991 FEB	.	69.020	.	.	.	.	.	.
1991 MAR	.	69.270	.	.	.	.	.	.
1991 APR	.	69.000	.	.	.	.	.	.
1991 MAY	.	68.300	.	.	.	.	.	.
1991 JUN	.	68.870	.	.	.	.	.	.
1991 JUL	.	64.980	.	.	.	.	.	.
1991 AUG	.	.	86.390	.	.	95.010	.	.
1991 SEP	91.120	.	.	147.250	125.970	.	187.720	80.810
1991 OCT	.	.	83.080	141.710	106.290	95.600	164.580	81.100
1991 NOV	105.020	.	.	.	.	.	.	.
1992 MAR	88.600	.	.	.	.	.	.	.
1992 APR	.	69.070	79.390	145.370	113.080	80.090	190.850	89.250
1992 AUG	79.410	.	.	.	.	.	.	.
1992 OCT	.	99.820	80.240	146.800	111.440	.	167.830	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

CHEMISTRY (LABORATORY)

RESIDUE FILTRATE (MG/L) DET'N LIMIT = N/A GUIDELINE = 500 (A3)

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
1991 JAN	511.000	.	.	.	.	.	.	400.000
1991 FEB	586.000	.	.	.	.	.	.	439.000 CRO
1991 MAR	575.000	.	.	.	.	.	.	432.000 CRO
1991 APR	596.000	.	.	.	.	.	.	422.000 CRO
1991 MAY	674.000	.	.	.	.	.	.	385.000 CRO
1991 JUN	669.000	.	.	.	.	.	.	381.000 CRO
1991 JUL	566.000	.	.	.	.	.	.	436.000 CRO
1991 AUG	.	822.000	.	.	515.000 CRO	507.000 CRO	.	.
1991 SEP	.	.	793.000	732.000	.	.	769.000	.
1991 NOV	.	.	763.000	749.000	448.000	506.000 CRO	775.000	.
1992 MAY	639.000	757.000	813.000	854.000	.	489.000 CRO	816.000	.

SULPHATE (MG/L) DET'N LIMIT = 0.20 GUIDELINE = 500 (A3)

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
1991 JAN	104.320	.	.	.	.	.	.	51.510
1991 FEB	98.830	.	.	.	.	.	.	64.330
1991 MAR	97.540	.	.	.	.	.	.	59.390
1991 APR	97.400	.	.	.	.	.	.	52.220
1991 MAY	89.940	.	.	.	.	.	.	34.100
1991 JUN	103.800	.	.	.	.	.	.	30.670
1991 JUL	78.350	.	.	.	.	.	.	50.640
1991 AUG	.	109.670	.	.	54.700	48.770	.	.
1991 SEP	.	.	103.770	221.540	.	.	211.760	.
1991 NOV	.	.	150.340	229.610	40.780	46.830	196.210	.
1992 MAY	92.220	84.610	132.160	200.730	.	53.410	181.630	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
RESIDUE FILTRATE (MG/L)			DET'N LIMIT = N/A		GUIDELINE = 500 (A3)			
1991 JAN	508.000	556.000	646.000	469.000	486.000	.	.	.
1991 FEB	517.000 CRO	524.000	486.000 CRO	470.000 CRO	555.000	516.000	.	.
1991 MAR	532.000	622.000	476.000 CRO	472.000 CRO	561.000	525.000	.	.
1991 APR	533.000	592.000	485.000 CRO	415.000 CRO	517.000 CRO	519.000 CRO	.	.
1991 MAY	484.000 CRO	650.000	407.000 CRO	391.000 CRO	491.000 CRO	487.000 CRO	.	.
1991 JUN	410.000 CRO	698.000	420.000 CRO	402.000 CRO	411.000 CRO	419.000 CRO	.	.
1991 JUL	506.000 CRO	572.000	443.000 CRO	430.000 CRO	490.000 CRO	447.000 CRO	.	.
1991 AUG	.	.	413.000 CRO	414.000 CRO	500.000 CRO	506.000 CRO	.	.
1991 OCT	.	.	.	.	492.000 CRO	499.000 CRO	.	.
1992 APR	457.000 CRO	.	.	.	592.000	495.000 CRO	.	.
1992 MAY	.	639.000	.	.	.	.	.	.
1992 OCT	667.000	.	.	.	495.000 CRO	495.000 CRO	.	.
SULPHATE (MG/L)			DET'N LIMIT = 0.20		GUIDELINE = 500 (A3)			
1991 JAN	75.810	100.430	125.460	73.560	87.440	.	.	.
1991 FEB	77.190	94.970	80.500	72.970	74.630	85.600	.	.
1991 MAR	85.820	100.520	83.300	82.780	88.310	89.580	.	.
1991 APR	73.870	91.750	79.610	44.790	75.270	75.070	.	.
1991 MAY	59.160	98.190	46.470	41.130	59.250	58.430	.	.
1991 JUN	44.610	101.910	55.270	43.090	46.000	46.590	.	.
1991 JUL	56.200	94.160	54.800	47.050	58.470	51.310	.	.
1991 AUG	.	.	46.540	46.960	50.850	50.840	.	.
1991 OCT	.	.	.	.	70.120	70.140	.	.
1992 APR	79.120	.	.	.	85.610	69.040	.	.
1992 MAY	.	104.590	.	.	.	.	.	.
1992 OCT	95.660	.	.	.	56.730	58.360	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHEMISTRY (LABORATORY)								
TURBIDITY (FTU)			DET'N LIMIT = 0.05		GUIDELINE = 1.0 (A1)			
1991 JAN	.240	.	.	.	.	.	.	.
1991 FEB	.330	.	.	.	.	.	.	.
1991 MAR	.150	.	.	.	.	.	.	.
1991 APR	.030	.	.	.	.	.	.	.
1991 MAY	.140 <T	.	.	.	.	.	.	.
1991 JUN	.270	.	.	.	.	.	.	.
1991 JUL	.100	.	.	.	.	.	.	.
1991 AUG	.	2.900	.	.	.	.	.	.080
1991 SEP	.	.	.070	.030	.	!RE	.560	.
1991 OCT	.	.	.	.	.150	.	.	.
1991 NOV	.	.	!RE	.100 <T	.190 <T	BDL	.590	.
1992 MAR	.	.	.070 <T	.100 <T	.090 <T	.110 <T	.680	.
1992 AUG	.	4.500 USD	.240 <T	.190 <T	.190 <T	.150 <T	.490 USD	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHEMISTRY (LABORATORY)								
TURBIDITY (FTU)			DET'N LIMIT = 0.05		GUIDELINE = 1.0 (A1)			
1991 JAN	.	1.120	.	.	.	.	.	.
1991 FEB	.	1.440	.	.	.	.	.	.
1991 MAR	.	1.390 RRV	.	.	.	.	.	.
1991 APR	.	1.090	.	.	.	.	.	.
1991 MAY	.	1.290	.	.	.	.	.	.
1991 JUN	.	1.440	.	.	.	.	.	.
1991 JUL	.	1.800	.	.	.	.	.	.
1991 AUG	.	.	.050	.	.	1.710	.	.
1991 SEP	.060	.	.	.130	.070	.	.070	1.950
1991 OCT	.	.	BDL	.150 <T	BDL	.250	BDL	.790
1991 NOV	.100 <T	.	.	.	.	.	.	.
1992 MAR	.130 <T	.	.	.	.	.	.	.
1992 APR	.	1.100	.140 <T	.290	.130 <T	.450	.090 <T	2.500
1992 AUG	.170 <T	.	.	.	.	.	.	.
1992 OCT	.	.200 <T	.160 <T	.190 <T	.120 <T	.	.120 <T	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHEMISTRY (LABORATORY)								
TURBIDITY (FTU)			DET'N LIMIT = 0.05		GUIDELINE = 1.0 (A1)			
1991 JAN	.140	.	.	.	.	.	.	.240
1991 FEB	.400	.	.	.	.	.	.	.280
1991 MAR	.280	.	.	.	.	.	.	.160
1991 APR	.060	.	.	.	.	.	.	.020
1991 MAY	.150 <T	.	.	.	.	.	.	.120 <T
1991 JUN	.360	.	.	.	.	.	.	.260
1991 JUL	.300	.	.	.	.	.	.	.080
1991 AUG	.	.040	.	.	1.520	.100	.	.
1991 SEP	.	.	.050	.040	.	.	.060	.
1991 NOV	.	.	.090 <T	.070 <T	1.460 RRV	.130 <T	.380	.
1992 MAY	.220 <T	.210 <T	.160 <T	.240 <T	.	.280	.550	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CHEMISTRY (LABORATORY)								
TURBIDITY (FTU)			DET'N LIMIT = 0.05		GUIDELINE = 1.0 (A1)			
1991 JAN	.110	.080	.100	.140	.120	.	.	.
1991 FEB	.300	.440	.570	.160	.500	.290	.	.
1991 MAR	.210	.160	.300	.350	.270	.280	.	.
1991 APR	.120	.040	.090	.050	.160	.160	.	.
1991 MAY	.270	.110 <T	.150 <T	.100 <T	.120 <T	.180 <T	.	.
1991 JUN	.450	.330	.340	.360	.380	.580	.	.
1991 JUL	.100	.070	.070	.060	.110	.110	.	.
1991 AUG	.	.	.040	.040	.180	.260	.	.
1991 OCT	.	.	.	.	.120 <T	.090 <T	.	.
1992 APR	.080 <T	.	.	.	.430	.330	.	.
1992 MAY	.	.280	.	.	.	.	.	.
1992 OCT	.160 <T	.	.	.	.230 <T	.250	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
SILVER (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	!SM	!SM	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
ALUMINUM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 100 (A4)			
1991 JAN	1.900	.	.	.	.	.	.	.
1991 FEB	1.500	.	.	.	.	.	.	.
1991 MAR	.900 <T	.	.	.	.	.	.	.
1991 APR	.900 <T	.	.	.	.	.	.	.
1991 MAY	2.400	.	.	.	.	.	.	.
1991 JUN	1.800	.	.	.	.	.	.	.
1991 JUL	2.300	.	.	.	.	.	.	.
1991 AUG	.	18.000	.	.	.	.	.	.740 <T
1991 SEP	.	.	2.300	3.300	.	3.200	3.000	.
1991 OCT	.	.	.	.	.680 <T	.	.	.
1991 NOV	.	.	1.100	1.300	!SM	!SM	1.200	.
1992 MAR	.	.	.500 <T	.410 <T	.380 <T	.400 <T	.810 <T	.
1992 AUG	.	30.000	1.400	2.300	1.800	5.700	3.600	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREEK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
SILVER (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	.070 <T	.
ALUMINUM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 100 (A4)			
1991 JAN	.	2.600	.	.	.	.	.	.
1991 FEB	.	2.100	.	.	.	.	.	.
1991 MAR	.	1.200	.	.	.	.	.	.
1991 APR	.	1.600	.	.	.	.	.	.
1991 MAY	.	1.900	.	.	.	.	.	.
1991 JUN		1.200	.	.	.	.	.	.
1991 JUL		1.700	.	.	.	.	.	.
1991 AUG	.	.	1.000 <T	.	.	1.700	.	.
1991 SEP	3.400	.	.	3.300	3.200	.	3.100	4.500
1991 OCT	.	.	.930 <T	3.200	1.000 <T	1.200	1.100	1.200
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	.550 <T	.	.	.	.	.	.	.
1992 APR	.	1.100	1.100	2.600	1.000 <T	1.200	1.100	1.200
1992 AUG	4.300	.	.	.	.	.	.	.
1992 OCT	.	2.000	1.900	3.100	2.100	.	2.100	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
SILVER (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.
ALUMINUM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 100 (A4)			
1991 JAN	2.700	.	.	.	.	.	.	2.600
1991 FEB	1.600	.	.	.	.	.	.	1.800
1991 MAR	1.300	.	.	.	.	.	.	1.500
1991 APR	1.500	.	.	.	.	.	.	1.700
1991 MAY	2.000	.	.	.	.	.	.	2.100
1991 JUN	1.500	.	.	.	.	.	.	2.500
1991 JUL	1.800	.	.	.	.	.	.	2.200
1991 AUG	.	.990 <T	.	.	1.200	.990 <T	.	.
1991 SEP	.	.	2.800	3.100	.	.	2.400	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	3.100	2.900	2.500	2.800	.	3.200	2.800	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
SILVER (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	BDL	BDL	BDL	BDL	BDL	.	.	.
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 JUN	BDL	.070 <T	BDL	BDL	BDL	BDL	.	.
1991 JUL	BDL	.060 <T	BDL	BDL	BDL	BDL	.	.
1991 AUG	.	.	BDL	BDL	BDL	.070 <T	.	.
1991 OCT	.	.	.	.	BDL	.060 <T	.	.
1992 APR	BDL	.	.	.	BDL	BDL	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.070 <T	.	.
ALUMINUM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 100 (A4)			
1991 JAN	3.100	2.600	2.700	3.200	3.200	.	.	.
1991 FEB	2.300	1.800	2.100	2.200	2.400	2.700	.	.
1991 MAR	1.800	1.400	1.600	1.700	1.900	2.100	.	.
1991 APR	2.400	1.600	2.000	2.000	2.600	5.100	.	.
1991 MAY	2.600	1.800	2.600	2.300	2.700	3.500	.	.
1991 JUN	2.400	1.700	1.700	1.700	2.400	3.400	.	.
1991 JUL	2.700	1.900	2.400	2.700	2.400	5.900	.	.
1991 AUG	.	.	1.600	1.400	1.200	2.300	.	.
1991 OCT	.	.	.	.	2.200	2.600	.	.
1992 APR	1.100	.	.	.	3.000	1.300	.	.
1992 MAY	.	3.300	.	.	.	.	.	.
1992 OCT	2.000	.	.	.	2.300	2.400	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
ARSENIC (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 25 (A1)			
1991 JAN	.400 <T	.	.	.	.	.	.	.
1991 FEB	.340 <T	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	.410 <T	.	.	.	.	.	.	.
1991 JUL	.440 <T	.	.	.	.	.	.	.
1991 AUG	.	.710 <T	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	.260 <T	.	.350 <T	.270 <T	.
1991 OCT	.	.	.	.	.790 <T	.	.	.
1991 NOV	.	.	.730 <T	.430 <T	!SM	!SM	1.100	.
1992 MAR	.	.	.620 <T	.600 <T	.650 <T	.640 <T	.860 <T	.
1992 AUG	.	.560 <T	BDL	.410 <T	.440 <T	.630 <T	.200 <T	.
BARIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 1000 (A2)			
1991 JAN	50.000	.	.	.	.	.	.	.
1991 FEB	48.000	.	.	.	.	.	.	.
1991 MAR	50.000	.	.	.	.	.	.	.
1991 APR	48.000	.	.	.	.	.	.	.
1991 MAY	53.000	.	.	.	.	.	.	.
1991 JUN	50.000	.	.	.	.	.	.	.
1991 JUL	48.000	.	.	.	.	.	.	.
1991 AUG	.	34.000	.	.	.	.	.	110.000
1991 SEP	.	.	34.000	53.000	.	42.000	41.000	.
1991 OCT	.	.	.	.	38.000	.	.	.
1991 NOV	.	.	36.000	57.000	!SM	!SM	44.000	.
1992 MAR	.	.	40.000	61.000	44.000	48.000	46.000	.
1992 AUG	.	41.000	40.000	56.000	42.000	48.000	41.000	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
ARSENIC (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 25 (A1)			
1991 JAN	.	1.400	.	.	.	.	.	.
1991 FEB	.	1.300	.	.	.	.	.	.
1991 MAR	.	1.100	.	.	.	.	.	.
1991 APR	.	1.600	.	.	.	.	.	.
1991 MAY	.	1.100	.	.	.	.	.	.
1991 JUN	.	1.800	.	.	.	.	.	.
1991 JUL	.	1.600	.	.	.	.	.	.
1991 AUG	.	.	.430 <T	.	.	.510 <T	.	.
1991 SEP	.550 <T	.	.	.230 <T	.360 <T	.	.190 <T	2.200
1991 OCT	.	.	.580 <T	.420 <T	.600 <T	1.100	.910 <T	1.100
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	1.300	.	.	.	.	.	.	.
1992 APR	.	1.500	.640 <T	.450 <T	.580 <T	.730 <T	1.900	7.100
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	1.200	.850 <T	.500 <T	.450 <T	.	1.800	.
BARIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 1000 (A2)			
1991 JAN	.	45.000	.	.	.	.	.	.
1991 FEB	.	46.000	.	.	.	.	.	.
1991 MAR	.	42.000	.	.	.	.	.	.
1991 APR	.	48.000	.	.	.	.	.	.
1991 MAY	.	52.000	.	.	.	.	.	.
1991 JUN	.	49.000	.	.	.	.	.	.
1991 JUL	.	42.000	.	.	.	.	.	.
1991 AUG	.	.	50.000	.	.	51.000	.	.
1991 SEP	57.000	.	.	41.000	28.000	.	53.000	75.000
1991 OCT	.	.	54.000	40.000	26.000	54.000	56.000	66.000
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	64.000	.	.	.	.	.	.	.
1992 APR	.	43.000	52.000	36.000	24.000	66.000	46.000	87.000
1992 AUG	66.000	.	.	.	.	.	.	.
1992 OCT	.	53.000	62.000	45.000	28.000	.	55.000	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
ARSENIC (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 25 (A1)			
1991 JAN	.400 <T	.	.	.	.	.	.	.260 <T
1991 FEB	.410 <T	.	.	.	.	.	.	.210 <T
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	.110 <T	.	.	.	.	.	.	.690 <T
1991 JUL	.510 <T	.	.	.	.	.	.	.300 <T
1991 AUG	.	BDL	.	.	.810 <T	.140 <T	.	.
1991 SEP	.	.	.260 <T	.230 <T	.	.	.350 <T	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	.330 <T	.300 <T	.160 <T	.210 <T	.	BDL	.680 <T	.
BARIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 1000 (A2)			
1991 JAN	51.000	.	.	.	.	.	.	47.000
1991 FEB	51.000	.	.	.	.	.	.	49.000
1991 MAR	47.000	.	.	.	.	.	.	47.000
1991 APR	50.000	.	.	.	.	.	.	49.000
1991 MAY	55.000	.	.	.	.	.	.	53.000
1991 JUN	50.000	.	.	.	.	.	.	49.000
1991 JUL	49.000	.	.	.	.	.	.	46.000
1991 AUG	.	69.000	.	.	47.000	37.000	.	.
1991 SEP	.	.	68.000	31.000	.	.	58.000	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	54.000	70.000	70.000	35.000	.	42.000	64.000	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAI[illegible] [illegible]ELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
ARSENIC (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 25 (A1)			
1991 JAN	.540 <T	.220 <T	.370 <T	.490 <T	.350 <T	.	.	.
1991 FEB	.270 <T	.480 <T	.290 <T	.260 <T	.310 <T	.360 <T	.	.
1991 MAR	BDL	BDL	.550 <T	.340 <T	BDL	.150 <T	.	.
1991 APR	.210 <T	.280 <T	.120 <T	BDL	.360 <T	.360 <T	.	.
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 JUN	.650 <T	.300 <T	.440 <T	.410 <T	.440 <T	.560 <T	.	.
1991 JUL	.350 <T	.220 <T	.260 <T	.350 <T	.220 <T	.190 <T	.	.
1991 AUG	.	.	.240 <T	.390 <T	.440 <T	.320 <T	.	.
1991 OCT	.	.	.	.	1.000 <T	.900 <T	.	.
1992 APR	.420 <T	.	.	.	1.100	.930 <T	.	.
1992 MAY	.	.220 <T	.	.	.	.	.	.
1992 OCT	1.200	.	.	.	1.000 <T	.870 <T	.	.
BARIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 1000 (A2)			
1991 JAN	50.000	51.000	52.000	50.000	49.000	.	.	.
1991 FEB	50.000	51.000	47.000	48.000	49.000	49.000	.	.
1991 MAR	47.000	48.000	42.000	48.000	50.000	50.000	.	.
1991 APR	49.000	51.000	48.000	53.000	49.000	52.000	.	.
1991 MAY	53.000	53.000	55.000	57.000	55.000	56.000	.	.
1991 JUN	51.000	51.000	48.000	50.000	49.000	47.000	.	.
1991 JUL	50.000	48.000	48.000	49.000	49.000	48.000	.	.
1991 AUG	.	.	45.000	47.000	37.000	45.000	.	.
1991 OCT	.	.	.	.	51.000	53.000	.	.
1992 APR	41.000	.	.	.	45.000	39.000	.	.
1992 MAY	.	56.000	.	.	.	.	.	.
1992 OCT	56.000	.	.	.	53.000	53.000	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
BORON (UG/L)			DET'N LIMIT = 2.00		GUIDELINE = 5000 (A1)			
1991 JAN	18.000 <T	.	.	.	.	.	.	.
1991 FEB	26.000	.	.	.	.	.	.	.
1991 MAR	14.000 <T	.	.	.	.	.	.	.
1991 APR	18.000 <T	.	.	.	.	.	.	.
1991 MAY	9.200 <T	.	.	.	.	.	.	.
1991 JUN	11.000 <T	.	.	.	.	.	.	.
1991 JUL	23.000	.	.	.	.	.	.	.
1991 AUG	.	15.000 <T	.	.	.	.	.	32.000
1991 SEP	.	.	20.000 <T	18.000 <T	.	11.000 <T	46.000	.
1991 OCT	.	.	.	.	52.000	.	.	.
1991 NOV	.	.	14.000 <T	14.000 <T	!SM	!SM	43.000	.
1992 MAR	.	.	19.000 <T	18.000 <T	23.000	15.000 <T	50.000	.
1992 AUG	.	17.000 <T	23.000	18.000 <T	48.000	22.000	38.000	.
BERYLLIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 6800 (D4)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	.090 <T	.	.	.
1991 NOV	.	.	BDL	BDL	!SM	!SM	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	.070 <T	.
1992 AUG	.	BDL	BDL	BDL	.080 <T	BDL	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREEK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALI[illegible] PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
BORON (UG/L)			DET'N LIMIT = 2.00		GUIDELINE = 5000 (A1)			
1991 JAN	.	46.000	.	.	.	.	.	.
1991 FEB	.	35.000	.	.	.	.	.	.
1991 MAR	.	20.000 <T	.	.	.	.	.	.
1991 APR	.	45.000	.	.	.	.	.	.
1991 MAY	.	18.000 <T	.	.	.	.	.	.
1991 JUN	.	18.000 <T	.	.	.	.	.	.
1991 JUL	.	16.000 <T	.	.	.	.	.	.
1991 AUG	.	.	11.000 <T	.	.	24.000	.	.
1991 SEP	38.000	.	.	42.000	23.000	.	40.000	22.000
1991 OCT	.	.	18.000 <T	50.000	25.000	59.000	36.000	26.000
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	40.000	.	.	.	.	.	.	.
1992 APR	.	16.000 <T	11.000 <T	38.000	20.000 <T	18.000 <T	36.000	17.000 <T
1992 AUG	39.000	.	.	.	.	.	.	.
1992 OCT	.	36.000	20.000 <T	47.000	24.000	.	39.000	.
BERYLLIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 6800 (D4)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	.060 <T	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	.060 <T	BDL	BDL	BDL	BDL
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	.070 <T	BDL	BDL	BDL	.	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
BORON (UG/L)			DET'N LIMIT = 2.00		GUIDELINE = 5000 (A1)			
1991 JAN	46.000	.	.	.	.	.	.	31.000
1991 FEB	34.000	.	.	.	.	.	.	15.000 <T
1991 MAR	23.000	.	.	.	.	.	.	17.000 <T
1991 APR	51.000	.	.	.	.	.	.	38.000
1991 MAY	20.000 <T	.	.	.	.	.	.	13.000 <T
1991 JUN	22.000	.	.	.	.	.	.	10.000 <T
1991 JUL	28.000	.	.	.	.	.	.	21.000
1991 AUG	.	32.000	.	.	38.000	190.000	.	.
1991 SEP	.	.	37.000	36.000	.	.	49.000	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	23.000	38.000	50.000	42.000	.	230.000	54.000	.
BERYLLIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 6800 (D4)			
1991 JAN	.090 <T	.	.	.	.	.	.	.060 <T
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	.070 <T	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	.100 <T	.160 <T	.090 <T	.110 <T	.	.170 <T	.080 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
BORON (UG/L)			DET'N LIMIT = 2.00		GUIDELINE = 5000 (A1)	
1991 JAN	46.000	49.000	57.000	44.000	36.000	.
1991 FEB	17.000 <T	28.000	31.000	32.000	17.000 <T	34.000
1991 MAR	24.000	26.000	26.000	24.000	23.000	24.000
1991 APR	22.000	45.000	53.000	39.000	45.000	47.000
1991 MAY	16.000 <T	21.000	16.000 <T	14.000 <T	18.000 <T	19.000 <T
1991 JUN	13.000 <T	21.000	19.000 <T	14.000 <T	16.000 <T	38.000
1991 JUL	26.000	32.000	25.000	23.000	23.000	12.000 <T
1991 AUG	.	.	23.000	21.000	140.000	130.000
1991 OCT	.	.	.	.	51.000	20.000 <T
1992 APR	14.000 <T	.	.	.	21.000	97.000
1992 MAY	.	24.000	.	.	.	.
1992 OCT	35.000	.	.	.	32.000	23.000
BERYLLIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 6800 (04)	
1991 JAN	.100 <T	.090 <T	.110 <T	.090 <T	BDL	.
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL
1991 JUL	.080 <T	BDL	BDL	BDL	BDL	BDL
1991 AUG	.	.	BDL	BDL	.070 <T	BDL
1991 OCT	.	.	.	.	.090 <T	BDL
1992 APR	BDL	.	.	.	BDL	BDL
1992 MAY	.	.100 <T	.	.	.	.
1992 OCT	BDL	.	.	.	.090 <T	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
CADMIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5.0 (A1)			
1991 JAN	.140 <T	.	.	.	.	.	.	.
1991 FEB	.070 <T	.	.	.	.	.	.	.
1991 MAR	.130 <T	.	.	.	.	.	.	.
1991 APR	.100 <T	.	.	.	.	.	.	.
1991 MAY	.130 <T	.	.	.	.	.	.	.
1991 JUN	.160 <T	.	.	.	.	.	.	.
1991 JUL	.310 <T	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	.140 <T
1991 SEP	.	.	.080 <T	.160 <T	.	.070 <T	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	.170 <T	.130 <T	!SM	!SM	.060 <T	.
1992 MAR	.	.	.110 <T	.100 <T	BDL	.100 <T	BDL	.
1992 AUG	.	BDL	.140 <T	.120 <T	BDL	.110 <T	.090 <T	.
COBALT (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = N/A			
1991 JAN	.250 <T	.	.	.	.	.	.	.
1991 FEB	.040 <T	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	.050 <T	.	.	.	.	.	.	.
1991 MAY	.060 <T	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	.050 <T	.050 <T	.	.060 <T	.090 <T	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	.100 <T	.200 <T	!SM	!SM	.230 <T	.
1992 MAR	.	.	.490 <T	.550 <T	.560 <T	.470 <T	.630 <T	.
1992 AUG	.	.220 <T	.460 <T	.230 <T	.130 <T	.220 <T	.560 <T	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
CADMIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5.0 (A1)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	.360 <T	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	.100 <T	.	.	.	.	.	.
1991 JUL	.	.350 <T	.	.	.	.	.	.
1991 AUG	.	.	.060 <T	.	.	BDL	.	.
1991 SEP	.080 <T	.	.	BDL	BDL	.	.080 <T	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	ISM	.	.	.	.	.	.	.
1992 MAR	.110 <T	.	.	.	.	.	.	.
1992 APR	.	BDL	.090 <T	BDL	BDL	BDL	.060 <T	BDL
1992 AUG	.070 <T	.	.	.	.	.	.	.
1992 OCT	.	.120 <T	.260 <T	.060 <T	.070 <T	.	.220 <T	.
COBALT (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = N/A			
1991 JAN	.	.360 <T	.	.	.	.	.	.
1991 FEB	.	.250 <T	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	.160 <T	.	.	.	.	.	.
1991 MAY	.	.510 <T	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	.780 <T	.	.	.220 <T	2.400	.	.350 <T	.470 <T
1991 OCT	.	.	.070 <T	.160 <T	2.200	.150 <T	.140 <T	.340 <T
1991 NOV	ISM	.	.	.	.	.	.	.
1992 MAR	1.200	.	.	.	.	.	.	.
1992 APR	.	.390 <T	.350 <T	.480 <T	2.600	2.900	.880 <T	4.600
1992 AUG	.770 <T	.	.	.	.	.	.	.
1992 OCT	.	.930 <T	.780 <T	.770 <T	3.100	.	1.300	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
CADMIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5.0 (A1)			
1991 JAN	.080 <T	.	.	.	.	.	.	.080 <T
1991 FEB	BDL	.	.	.	.	.	.	.060 <T
1991 MAR	BDL	.	.	.	.	.	.	.130 <T
1991 APR	BDL	.	.	.	.	.	.	.090 <T
1991 MAY	BDL	.	.	.	.	.	.	.130 <T
1991 JUN	.210 <T	.	.	.	.	.	.	.180 <T
1991 JUL	.500 <T	.	.	.	.	.	.	.280 <T
1991 AUG	.	.080 <T	.	.	.090 <T	BDL	.	.
1991 SEP	.	.	.240 <T	.060 <T	.	.	.060 <T	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	.130 <T	.170 <T	.320 <T	.120 <T	.	BDL	.130 <T	.
COBALT (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = N/A			
1991 JAN	.420 <T	.	.	.	.	.	.	.210 <T
1991 FEB	.130 <T	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	.230 <T	.	.	.	.	.	.	BDL
1991 MAY	.110 <T	.	.	.	.	.	.	.060 <T
1991 JUN	.120 <T	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	1.400	.	.	.430 <T	BDL	.	.
1991 SEP	.	.	.540 <T	.140 <T	.	.	1.500	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	.460 <T	.390 <T	4.100	.520 <T	.	.360 <T	2.000	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
CADMIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5.0 (A1)			
1991 JAN	.060 <T	.080 <T	.080 <T	.070 <T	.060 <T	.	.	.
1991 FEB	BDL	BDL	BDL	BDL	.160 <T	.410 <T	.	.
1991 MAR	.060 <T	.060 <T	.060 <T	.070 <T	BDL	.120 <T	.	.
1991 APR	.080 <T	.100 <T	.090 <T	.100 <T	BDL	.110 <T	.	.
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 JUN	.160 <T	.170 <T	.150 <T	.170 <T	.170 <T	.160 <T	.	.
1991 JUL	.200 <T	.310 <T	.280 <T	.220 <T	.180 <T	.470 <T	.	.
1991 AUG	.	.	.090 <T	.110 <T	.090 <T	.110 <T	.	.
1991 OCT	.	.	.	.	BDL	BDL	.	.
1992 APR	.080 <T	.	.	.	.110 <T	BDL	.	.
1992 MAY	.	.110 <T	.	.	.	.	.	.
1992 OCT	.190 <T	.	.	.	.170 <T	.150 <T	.	.
COBALT (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = N/A			
1991 JAN	.530 <T	.380 <T	.520 <T	.270 <T	.530 <T	.	.	.
1991 FEB	.440 <T	.150 <T	.080 <T	.030 <T	.460 <T	.320 <T	.	.
1991 MAR	.180 <T	BDL	BDL	BDL	.040 <T	.110 <T	.	.
1991 APR	.420 <T	.180 <T	.080 <T	.180 <T	.430 <T	.400 <T	.	.
1991 MAY	.370 <T	.260 <T	.230 <T	.190 <T	.330 <T	.310 <T	.	.
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 JUL	BDL	BDL	BDL	BDL	BDL	.060 <T	.	.
1991 AUG	.	.	BDL	BDL	BDL	BDL	.	.
1991 OCT	.	.	.	.	.090 <T	.110 <T	.	.
1992 APR	.350 <T	.	.	.	.630 <T	.440 <T	.	.
1992 MAY	.	.440 <T	.	.	.	.	.	.
1992 OCT	.910 <T	.	.	.	.760 <T	.830 <T	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
CHROMIUM (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 50.0 (A1)			
1991 JAN	1.600 <T	.	.	.	.	.	.	.
1991 FEB	4.800 <T	.	.	.	.	.	.	.
1991 MAR	1.200 <T	.	.	.	.	.	.	.
1991 APR	2.300 <T	.	.	.	.	.	.	.
1991 MAY	.620 <T	.	.	.	.	.	.	.
1991 JUN	.900 <T	.	.	.	.	.	.	.
1991 JUL	5.600	.	.	.	.	.	.	.
1991 AUG	.	.650 <T	.	.	.	.	.	5.000 <T
1991 SEP	.	.	.880 <T	.510 <T	.	.620 <T	BDL	.
1991 OCT	.	.	.	.	6.600	.	.	.
1991 NOV	.	.	BDL	BDL	!SM	!SM	BDL	.
1992 MAR	.	.	.630 <T	BDL	.630 <T	BDL	.610 <T	.
1992 AUG	.	BDL	1.400 <T	BDL	4.400 <T	.540 <T	BDL	.
COPPER (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 1000 (A3)			
1991 JAN	1.900 <T	.	.	.	.	.	.	.
1991 FEB	1.100 <T	.	.	.	.	.	.	.
1991 MAR	.720 <T	.	.	.	.	.	.	.
1991 APR	1.800 <T	.	.	.	.	.	.	.
1991 MAY	1.200 <T	.	.	.	.	.	.	.
1991 JUN	1.700 <T	.	.	.	.	.	.	.
1991 JUL	1.500 <T	.	.	.	.	.	.	.
1991 AUG	.	1.200 <T	.	.	.	.	.	1.500 <T
1991 SEP	.	.	1.200 <T	.870 <T	.	.840 <T	BDL	.
1991 OCT	.	.	.	.	1.600 <T	.	.	.
1991 NOV	.	.	1.700 <T	.630 <T	!SM	!SM	.650 <T	.
1992 MAR	.	.	1.500 <T	.790 <T	1.300 <T	.840 <T	.560 <T	.
1992 AUG	.	.850 <T	1.600 <T	.830 <T	.720 <T	1.000 <T	1.300 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

METALS	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHROMIUM (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 50.0 (A1)			
1991 JAN	.	5.400	.	.	.	.	.	.
1991 FEB	.	7.000	.	.	.	.	.	.
1991 MAR	.	2.900 <T	.	.	.	.	.	.
1991 APR	.	8.400	.	.	.	.	.	.
1991 MAY	.	.560 <T	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	1.200 <T	.	.	.	.	.	.
1991 AUG	.	.	1.100 <T	.	.	1.600 <T	.	.
1991 SEP	.630 <T	.	.	BDL	.520 <T	.	.870 <T	BDL
1991 OCT	.	.	1.500 <T	1.600 <T	.600 <T	7.200	BDL	1.700 <T
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	6.200	4.100 <T	2.300 <T	.840 <T	.	2.000 <T	.
COPPER (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 1000 (A3)			
1991 JAN	.	1.300 <T	.	.	.	.	.	.
1991 FEB	.	.630 <T	.	.	.	.	.	.
1991 MAR	.	.510 <T	.	.	.	.	.	.
1991 APR	.	.930 <T	.	.	.	.	.	.
1991 MAY	.	1.000 <T	.	.	.	.	.	.
1991 JUN	.	1.200 <T	.	.	.	.	.	.
1991 JUL	.	1.000 <T	.	.	.	.	.	.
1991 AUG	.	.	1.400 <T	.	.	BDL	.	.
1991 SEP	1.800 <T	.	.	BDL	.530 <T	.	1.700 <T	.580 <T
1991 OCT	.	.	2.700 <T	BDL	BDL	1.800 <T	1.600 <T	1.100 <T
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	1.400 <T	.	.	.	.	.	.	.
1992 APR	.	BDL	2.100 <T	BDL	BDL	.910 <T	.980 <T	.860 <T
1992 AUG	1.600 <T	.	.	.	.	.	.	.
1992 OCT	.	.580 <T	1.800 <T	.540 <T	BDL	.	1.600 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
CHROMIUM (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 50.0 (A1)			
1991 JAN	4.800 <T	.	.	.	.	.	.	4.000 <T
1991 FEB	4.200 <T	.	.	.	.	.	.	1.200 <T
1991 MAR	2.900 <T	.	.	.	.	.	.	3.300 <T
1991 APR	9.200	.	.	.	.	.	.	8.700
1991 MAY	BDL	.	.	.	.	.	.	1.700 <T
1991 JUN	.750 <T	.	.	.	.	.	.	.820 <T
1991 JUL	6.300	.	.	.	.	.	.	5.300
1991 AUG	.	1.300 <T	.	.	4.900 <T	1.200 <T	.	.
1991 SEP	.	.	.510 <T	.810 <T	.	.	BDL	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	BDL	3.100 <T	1.200 <T	1.300 <T	.	1.600 <T	.930 <T	.
COPPER (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 1000 (A3)			
1991 JAN	1.100 <T	.	.	.	.	.	.	1.600 <T
1991 FEB	.640 <T	.	.	.	.	.	.	1.600 <T
1991 MAR	.640 <T	.	.	.	.	.	.	1.600 <T
1991 APR	2.200 <T	.	.	.	.	.	.	4.400 <T
1991 MAY	1.400 <T	.	.	.	.	.	.	1.600 <T
1991 JUN	1.800 <T	.	.	.	.	.	.	2.100 <T
1991 JUL	1.000 <T	.	.	.	.	.	.	2.200 <T
1991 AUG	.	.980 <T	.	.	.630 <T	9.000	.	.
1991 SEP	.	.	2.400 <T	.680 <T	.	.	1.100 <T	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	.850 <T	1.600 <T	2.600 <T	.760 <T	.	.740 <T	1.600 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
CHROMIUM (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 50.0 (A1)			
1991 JAN	5.100	5.400	5.700	4.500 <T	2.900 <T	.	.	.
1991 FEB	BDL	3.200 <T	4.000 <T	3.300 <T	BDL	5.000 <T	.	.
1991 MAR	3.000 <T	3.700 <T	2.900 <T	3.100 <T	1.200 <T	3.000 <T	.	.
1991 APR	1.300 <T	8.300	9.000	8.700	8.000	8.300	.	.
1991 MAY	BDL	BDL	1.300 <T	1.600 <T	1.400 <T	1.300 <T	.	.
1991 JUN	BDL	.830 <T	.900 <T	.960 <T	.730 <T	.620 <T	.	.
1991 JUL	6.600	6.300	6.100	6.300	5.000 <T	.770 <T	.	.
1991 AUG	.	.	4.500 <T	3.900 <T	3.000 <T	4.000 <T	.	.
1991 OCT	.	.	.	.	6.100	BDL	.	.
1992 APR	BDL	.	.	.	BDL	BDL	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	6.100	.	.	.	6.000	2.000 <T	.	.
COPPER (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 1000 (A3)			
1991 JAN	1.400 <T	.930 <T	78.000	1300.000	32.000	.	.	.
1991 FEB	1.100 <T	.850 <T	130.000	510.000	64.000	440.000	.	.
1991 MAR	.840 <T	.610 <T	73.000	650.000	29.000	300.000	.	.
1991 APR	1.400 <T	.810 <T	89.000	1600.000 RRV	31.000	450.000	.	.
1991 MAY	1.700 <T	1.300 <T	67.000	570.000	40.000	470.000	.	.
1991 JUN	1.500 <T	1.400 <T	79.000	520.000	28.000	160.000	.	.
1991 JUL	1.400 <T	.780 <T	120.000	480.000	51.000	330.000	.	.
1991 AUG	.	.	92.000	410.000	47.000	370.000	.	.
1991 OCT	.	.	.	.	37.000	340.000	.	.
1992 APR	2.100 <T	.	.	.	130.000	23.000	.	.
1992 MAY	.	.720 <T	.	.	.	.	.	.
1992 OCT	.720 <T	.	.	.	26.000	260.000	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
IRON (UG/L)			DET'N LIMIT = 6.00		GUIDELINE = 300 (A3)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	66.000	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	85.000	.
1991 OCT	.	.	.	.	6.100 <T	.	.	.
1991 NOV	.	.	BDL	BDL	!SM	!SM	95.000	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	76.000	.
1992 AUG	.	100.000	BDL	BDL	BDL	BDL	28.000 <T	.
MERCURY (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = 1.0 (A1)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.

TABLE 4

DRINKING WATER SURVEIL[illegible] 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWN[illegible] WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
IRON (UG/L)			DET'N LIMIT = 6.00		GUIDELINE = 300 (A3)			
1991 JAN	.	140.000	.	.	.	.	.	.
1991 FEB	.	120.000	.	.	.	.	.	.
1991 MAR	.	100.000	.	.	.	.	.	.
1991 APR	.	150.000	.	.	.	.	.	.
1991 MAY	.	140.000	.	.	.	.	.	.
1991 JUN	.	140.000	.	.	.	.	.	.
1991 JUL	.	160.000	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	190.000	.	.
1991 SEP	12.000 <T	.	.	10.000 <T	8.700 <T	.	BDL	200.000
1991 OCT	.	.	BDL	12.000 <T	BDL	71.000	BDL	110.000
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	130.000	7.700 <T	11.000 <T	7.300 <T	62.000	12.000 <T	180.000
1992 AUG	7.600 <T	.	.	.	.	.	.	.
1992 OCT	.	BDL	12.000 <T	BDL	7.600 <T	.	BDL	.
MERCURY (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = 1.0 (A1)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	.040 <T	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
IRON (UG/L)			DET'N LIMIT = 6.00		GUIDELINE = 300 (A3)			
1991 JAN	17.000 <T	.	.	.	.	.	.	BDL
1991 FEB	7.900 <T	.	.	.	.	.	.	BDL
1991 MAR	6.800 <T	.	.	.	.	.	.	BDL
1991 APR	8.100 <T	.	.	.	.	.	.	BDL
1991 MAY	11.000 <T	.	.	.	.	.	.	BDL
1991 JUN	16.000 <T	.	.	.	.	.	.	BDL
1991 JUL	7.400 <T	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	160.000	24.000 <T	.	.
1991 SEP	.	.	16.000 <T	14.000 <T	.	.	41.000 <T	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	14.000 <T	16.000 <T	10.000 <T	18.000 <T	.	27.000 <T	63.000	.
MERCURY (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = 1.0 (A1)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
IRON (UG/L)			DET'N LIMIT = 6.00		GUIDELINE = 300 (A3)			
1991 JAN	23.000 <T	14.000 <T	7.500 <T	BDL	25.000 <T	.	.	.
1991 FEB	28.000 <T	480.000	BDL	BDL	23.000 <T	12.000 <T	.	.
1991 MAR	19.000 <T	10.000 <T	13.000 <T	BDL	26.000 <T	15.000 <T	.	.
1991 APR	29.000 <T	7.200 <T	8.500 <T	BDL	23.000 <T	16.000 <T	.	.
1991 MAY	30.000 <T	15.000 <T	6.500 <T	BDL	31.000 <T	20.000 <T	.	.
1991 JUN	36.000 <T	16.000 <T	9.000 <T	BDL	30.000 <T	30.000 <T	.	.
1991 JUL	21.000 <T	8.900 <T	BDL	BDL	BDL	6.700 <T	.	.
1991 AUG	.	.	BDL	BDL	17.000 <T	16.000 <T	.	.
1991 OCT	.	.	.	.	21.000 <T	17.000 <T	.	.
1992 APR	BDL	.	.	.	24.000 <T	20.000 <T	.	.
1992 MAY	.	14.000 <T	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	16.000 <T	9.600 <T	.	.
MERCURY (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = 1.0 (A1)			
1991 JAN	BDL	BDL	.	.	.	.	.	.
1991 FEB	BDL	BDL	.	.	.	.	.	.
1991 MAR	BDL	BDL	.	.	.	.	.	.
1991 APR	BDL	BDL	.	.	.	.	.	.
1991 MAY	BDL	BDL	.	.	.	.	.	.
1991 JUN	BDL	BDL	.	.	.	.	.	.
1991 JUL	BDL	BDL	.	.	.	.	.	.
1992 APR	BDL	.	.	.	.	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
MANGANESE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 50.0 (A3)			
1991 JAN	.150 <T	.	.	.	.	.	.	.
1991 FEB	.080 <T	.	.	.	.	.	.	.
1991 MAR	.070 <T	.	.	.	.	.	.	.
1991 APR	.110 <T	.	.	.	.	.	.	.
1991 MAY	.150 <T	.	.	.	.	.	.	.
1991 JUN	.110 <T	.	.	.	.	.	.	.
1991 JUL	.160 <T	.	.	.	.	.	.	.
1991 AUG	.	29.000	.	.	.	.	.	4.300
1991 SEP	.	.	.100 <T	BDL	.	.060 <T	14.000	.
1991 OCT	.	.	.	.	.150 <T	.	.	.
1991 NOV	.	.	.150 <T	BDL	!SM	!SM	15.000	.
1992 MAR	.	.	.110 <T	.070 <T	.160 <T	.210 <T	16.000	.
1992 AUG	.	45.000	.090 <T	.080 <T	BDL	.130 <T	17.000	.
MOLYBDENUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	.450 <T	.	.	.	.	.	.	.
1991 FEB	.520	.	.	.	.	.	.	.
1991 MAR	.520	.	.	.	.	.	.	.
1991 APR	.490 <T	.	.	.	.	.	.	.
1991 MAY	.520	.	.	.	.	.	.	.
1991 JUN	.290 <T	.	.	.	.	.	.	.
1991 JUL	.510	.	.	.	.	.	.	.
1991 AUG	.	.370 <T	.	.	.	.	.	1.200
1991 SEP	.	.	.510	.870	.	.440 <T	2.000	.
1991 OCT	.	.	.	.	.450 <T	.	.	.
1991 NOV	.	.	.510	.890	!SM	!SM	1.800	.
1992 MAR	.	.	.630	.870	.550	.550	1.900	.
1992 AUG	.	.420 <T	.520	.870	.600	.420 <T	1.900	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	[illegible] CREEK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
MANGANESE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 50.0 (A3)			
1991 JAN	.	3.400	.	.	.	.	.	.
1991 FEB	.	3.200	.	.	.	.	.	.
1991 MAR	.	2.800	.	.	.	.	.	.
1991 APR	.	3.700	.	.	.	.	.	.
1991 MAY	.	3.300	.	.	.	.	.	.
1991 JUN	.	3.300	.	.	.	.	.	.
1991 JUL	.	3.300	.	.	.	.	.	.
1991 AUG	.	.	6.000	.	.	6.500	.	.
1991 SEP	2.300	.	.	18.000	8.700	.	1.100	19.000
1991 OCT	.	.	13.000	19.000	8.000	4.800	.760	16.000
1991 NOV	ISM	.	.	.	.	.	.	.
1992 MAR	2.300	.	.	.	.	.	.	.
1992 [illegible]	.	3.000	21.000	17.000	7.800	7.500	2.300	33.000
1992 AUG	2.000	.	.	.	.	.	.	.
1992 OCT	.	4.000	29.000	14.000	8.700	.	2.500	.
MOLYBDENUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	.	1.000	.	.	.	.	.	.
1991 FEB	.	1.000	.	.	.	.	.	.
1991 MAR	.	.870	.	.	.	.	.	.
1991 APR	.	1.200	.	.	.	.	.	.
1991 MAY	.	1.200	.	.	.	.	.	.
1991 JUN	.	.980	.	.	.	.	.	.
1991 JUL	.	1.200	.	.	.	.	.	.
1991 AUG	.	.	.590	.	.	.450 <T	.	.
1991 SEP	1.700	.	.	1.300	1.600	.	2.700	2.100
1991 OCT	.	.	.630	1.300	1.400	.630	2.300	2.100
1991 NOV	ISM	.	.	.	.	.	.	.
1992 MAR	1.900	.	.	.	.	.	.	.
1992 APR	.	1.100	.630	1.200	1.400	.610	2.400	3.300
1992 AUG	2.100	.	.	.	.	.	.	.
1992 OCT	.	1.400	.790	1.200	1.600	.	2.200	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
MANGANESE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 50.0 (A3)			
1991 JAN	4.300	.	.	.	.	.	.	.110 <T
1991 FEB	3.900	.	.	.	.	.	.	.100 <T
1991 MAR	3.400	.	.	.	.	.	.	.080 <T
1991 APR	4.100	.	.	.	.	.	.	.130 <T
1991 MAY	3.800	.	.	.	.	.	.	BDL
1991 JUN	4.000	.	.	.	.	.	.	.060 <T
1991 JUL	3.100	.	.	.	.	.	.	.120 <T
1991 AUG	.	7.100	.	.	42.000	2.000	.	.
1991 SEP	.	.	5.300	3.200	.	.	12.000	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	4.200	3.800	19.000	3.200	.	2.100	13.000	.
MOLYBDENUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	1.300	.	.	.	.	.	.	.440 <T
1991 FEB	1.300	.	.	.	.	.	.	.460 <T
1991 MAR	1.300	.	.	.	.	.	.	.450 <T
1991 APR	1.500	.	.	.	.	.	.	.460 <T
1991 MAY	1.500	.	.	.	.	.	.	.430 <T
1991 JUN	1.300	.	.	.	.	.	.	.440 <T
1991 JUL	1.400	.	.	.	.	.	.	.440 <T
1991 AUG	.	2.000	.	.	.570	.440 <T	.	.
1991 SEP	.	.	2.700	4.900	.	.	3.000	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	1.400	1.100	2.900	3.900	.	.540	2.700	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
MANGANESE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 50.0 (A3)			
1991 JAN	2.800	4.100	[illegible]	5.000	3.300	.	.	.
1991 FEB	2.300	7.800	3.300	4.200	2.100	2.600	.	.
1991 MAR	2.500	3.800	4.700	3.900	3.200	3.200	.	.
1991 APR	2.600	3.800	4.600	1.100	2.600	3.000	.	.
1991 MAY	1.400	4.000	1.200	.290 <T	1.300	1.900	.	.
1991 JUN	.950	3.700	3.100	1.900	.900	1.500	.	.
1991 JUL	1.200	3.500	.960	.350 <T	1.400	.970	.	.
1991 AUG	.	.	.300 <T	.240 <T	2.100	2.800	.	.
1991 OCT	.	.	.	.	1.100	1.400	.	.
1992 APR	.130 <T	.	.	.	2.800	2.000	.	.
1992 MAY	.	3.900	.	.	.	.	.	.
1992 OCT	3.800	.	.	.	1.400	1.800	.	.
MOLYBDENUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	.910	1.400	[illegible]	1.000	1.100	.	.	.
1991 FEB	.960	1.400	.910	.920	.930	.930	.	.
1991 MAR	.930	1.300	.850	.840	1.100	1.100	.	.
1991 APR	1.100	1.500	1.000	.520	1.100	1.000	.	.
1991 MAY	.900	1.500	.590	.420 <T	.740	.910	.	.
1991 JUN	.480 <T	1.300	.730	.540	.520	.600	.	.
1991 JUL	.680	1.300	.490 <T	.380 <T	.640	.490 <T	.	.
1991 AUG	.	.	.410 <T	.440 <T	.380 <T	.440 <T	.	.
1991 OCT	.	.	.	.	.870	.810	.	.
1992 APR	.560	.	.	.	1.000	.710	.	.
1992 MAY	.	1.500	.	.	.	.	.	.
1992 OCT	1.500	.	.	.	.750	.750	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
NICKEL (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 350 (D3)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	.880 <T	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	.840 <T	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	.390 <T	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	3.300	2.700	ISM	ISM	1.100 <T	.
1992 MAR	.	.	8.300	6.700	7.400	5.100	5.700	.
1992 AUG	.	.690 <T	3.200	.850 <T	1.500 <T	.960 <T	2.100	.
LEAD (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 10 (A1)			
1991 JAN	.350 <T	.	.	.	.	.	.	.
1991 FEB	.190 <T	.	.	.	.	.	.	.
1991 MAR	.090 <T	.	.	.	.	.	.	.
1991 APR	.070 <T	.	.	.	.	.	.	.
1991 MAY	.190 <T	.	.	.	.	.	.	.
1991 JUN	.260 <T	.	.	.	.	.	.	.
1991 JUL	.210 <T	.	.	.	.	.	.	.
1991 AUG	.	.320 <T	.	.	.	.	.	.220 <T
1991 SEP	.	.	.110 <T	.240 <T	.	.250 <T	.440 <T	.
1991 OCT	.	.	.	.	.060 <T	.	.	.
1991 NOV	.	.	.230 <T	.210 <T	ISM	ISM	.500 <T	.
1992 MAR	.	.	.180 <T	.250 <T	.160 <T	.260 <T	.530	.
1992 AUG	.	.520	.130 <T	.200 <T	BDL	.240 <T	.480 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
NICKEL (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 350 (D3)			
1991 JAN	.	.910 <T	.	.	.	.	.	.
1991 FEB	.	1.200 <T	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	2.000 <T	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	2.900	.	6.400	2.100
1991 OCT	.	.	BDL	BDL	1.700 <T	BDL	4.600	3.100
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	8.500	.	.	.	.	.	.	.
1992 APR	.	5.700	6.900	6.000	9.300	8.200	16.000	20.000
1992 AUG	3.100	.	.	.	.	.	.	.
1992 OCT	.	6.200	6.700	5.900	9.000	.	18.000	.
LEAD (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 10 (A1)			
1991 JAN	.	.340 <T	.	.	.	.	.	.
1991 FEB	.	.280 <T	.	.	.	.	.	.
1991 MAR	.	.180 <T	.	.	.	.	.	.
1991 APR	.	.480 <T	.	.	.	.	.	.
1991 MAY	.	.180 <T	.	.	.	.	.	.
1991 JUN	.	.220 <T	.	.	.	.	.	.
1991 JUL	.	.230 <T	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	.130 <T	.	.
1991 SEP	.110 <T	.	.	.090 <T	.070 <T	.	.090 <T	.700
1991 OCT	.	.	.110 <T	.070 <T	BDL	.140 <T	.090 <T	.350 <T
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	.080 <T	.	.	.	.	.	.	.
1992 APR	.	.080 <T	.080 <T	.060 <T	BDL	.230 <T	BDL	.960
1992 AUG	.090 <T	.	.	.	.	.	.	.
1992 OCT	.	2.000	.200 <T	.100 <T	.080 <T	.	.210 <T	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
NICKEL (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 350 (D3)			
1991 JAN	.750 <T	.	.	.	.	.	.	.620 <T
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	1.100 <T	.	.	.	.	.	.	1.200 <T
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	.810 <T	.	.	.	.	.	.	2.600
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	4.900	.	.	BDL	BDL	.	.
1991 SEP	.	.	8.300	BDL	.	.	4.300	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	3.100	3.700	17.000	3.600	.	2.500	11.000	.
LEAD (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 10 (A1)			
1991 JAN	2.400	.	.	.	.	.	.	.250 <T
1991 FEB	2.200	.	.	.	.	.	.	.190 <T
1991 MAR	2.400	.	.	.	.	.	.	.210 <T
1991 APR	1.900	.	.	.	.	.	.	.240 <T
1991 MAY	3.500	.	.	.	.	.	.	.210 <T
1991 JUN	2.000	.	.	.	.	.	.	.260 <T
1991 JUL	4.400	.	.	.	.	.	.	.260 <T
1991 AUG	.	.370 <T	.	.	.190 <T	.930	.	.
1991 SEP	.	.	.910	.090 <T	.	.	.520	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	2.300	.590	1.000	.080 <T	.	.230 <T	.750	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY [illegible] TREA[illegible]	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
NICKEL (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 350 (D3)			
1991 JAN	1.100 <T	.450 <T	3.200	.510 <T	1.700 <T	.	.	.
1991 FEB	2.500	BDL	BDL	BDL	2.800	3.100	.	.
1991 MAR	BDL	BDL	BDL	BDL	BDL	.860 <T	.	.
1991 APR	3.200	1.800 <T	.820 <T	1.500 <T	3.700	4.200	.	.
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 JUN	.760 <T	BDL	BDL	1.100 <T	BDL	BDL	.	.
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 AUG	.	.	BDL	BDL	BDL	.580 <T	.	.
1991 OCT	.	.	.	.	BDL	BDL	.	.
1992 APR	5.800	.	.	.	8.200	6.300	.	.
1992 MAY	.	3.100	.	.	.	.	.	.
1992 OCT	6.500	.	.	.	6.300	6.200	.	.
LEAD (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 10 (A1)			
1991 JAN	.210 <T	2.400	.390 <T	1.800	.920	.	.	.
1991 FEB	.250 <T	2.600	.580	.990	1.200	13.000	.	.
1991 MAR	.170 <T	2.000	.410 <T	1.600	.730	5.000	.	.
1991 APR	.210 <T	2.400	.300 <T	1.800	.860	8.900	.	.
1991 MAY	.200 <T	2.300	.350 <T	.610	.860	7.400	.	.
1991 JUN	.200 <T	2.200	.520	.770	.810	3.300	.	.
1991 JUL	.270 <T	2.500	.610	1.100	1.500	5.400	.	.
1991 AUG	.	.	.520	.840	1.600	6.800	.	.
1991 OCT	.	.	.	.	.960	5.300	.	.
1992 APR	.160 <T	.	.	.	4.300	.790	.	.
1992 MAY	.	2.700	.	.	.	.	.	.
1992 OCT	3.000	.	.	.	.800	2.800	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
ANTIMONY (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 146 (D4)			
1991 JAN	.390 <T	.	.	.	.	.	.	.
1991 FEB	.590	.	.	.	.	.	.	.
1991 MAR	.590	.	.	.	.	.	.	.
1991 APR	.590	.	.	.	.	.	.	.
1991 MAY	.350 <T	.	.	.	.	.	.	.
1991 JUN	.460 <T	.	.	.	.	.	.	.
1991 JUL	.880	.	.	.	.	.	.	.
1991 AUG	.	.470 <T	.	.	.	.	.	.490 <T
1991 SEP	.	.	.580	.440 <T	.	.410 <T	.330 <T	.
1991 OCT	.	.	.	.	.650	.	.	.
1991 NOV	.	.	.780	.600	!SM	!SM	.300 <T	.
1992 MAR	.	.	1.000	.660	.790	.470 <T	.620	.
1992 AUG	.	.370 <T	.640	.450 <T	.740	.400 <T	.450 <T	.
SELENIUM (UG/L)			DET'N LIMIT = 1.00		GUIDELINE = 10 (A1)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	1.600 <T	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	1.400 <T	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	1.200 <T	BDL	.	BDL	1.500 <T	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	!SM	!SM	2.100 <T	.
1992 MAR	.	.	2.300 <T	1.600 <T	2.000 <T	1.400 <T	2.000 <T	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	1.100 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BUR[illegible] WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
ANTIMONY (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 146 (D4)			
1991 JAN	.	.380 <T	.	.	.	.	.	.
1991 FEB	.	.470 <T	.	.	.	.	.	.
1991 MAR	.	.350 <T	.	.	.	.	.	.
1991 APR	.	.540	.	.	.	.	.	.
1991 MAY	.	.480 <T	.	.	.	.	.	.
1991 JUN	.	.530	.	.	.	.	.	.
1991 JUL	.	.670	.	.	.	.	.	.
1991 AUG	.	.	.490 <T	.	.	.480 <T	.	.
1991 SEP	.560	.	.	.450 <T	.900	.	.920	.970
1991 OCT	.	.	.400 <T	.520	.890	.490 <T	1.000	1.300
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	.770	.	.	.	.	.	.	.
1992 APR	.	.440 <T	.320 <T	.420 <T	.820	.840	.700	1.700
1992 AUG	.590	.	.	.	.	.	.	.
1992 OCT	.	.470 <T	.370 <T	.420 <T	.890	.	.890	.
SELENIUM (UG/L)			DET'N LIMIT = 1.00		GUIDELINE = 10 (A1)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	1.100 <T	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	2.100 <T	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	1.400 <T	.	.	BDL	BDL	.	1.400 <T	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	1.900 <T	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	1.200 <T	1.900 <T	2.100 <T	1.900 <T	.	2.800 <T	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
ANTIMONY (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 146 (D4)			
1991 JAN	.380 <T	.	.	.	.	.	.	.340 <T
1991 FEB	.550	.	.	.	.	.	.	.530
1991 MAR	.510	.	.	.	.	.	.	.410 <T
1991 APR	.610	.	.	.	.	.	.	.560
1991 MAY	.490 <T	.	.	.	.	.	.	.300 <T
1991 JUN	.580	.	.	.	.	.	.	.500 <T
1991 JUL	.710	.	.	.	.	.	.	.750
1991 AUG	.	1.100	.	.	.560	.470 <T	.	.
1991 SEP	.	.	.820	.460 <T	.	.	1.100	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	.490 <T	.420 <T	.620	.410 <T	.	.390 <T	.820	.
SELENIUM (UG/L)			DET'N LIMIT = 1.00		GUIDELINE = 10 (A1)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	1.300 <T
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	1.100 <T	.	.	.	.	.	.	1.200 <T
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	2.200 <T	.	.	.	.	.	.	1.200 <T
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	BDL	1.200 <T	.	.
1991 SEP	.	.	1.500 <T	BDL	.	.	BDL	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	BDL	BDL	2.000 <T	BDL	.	BDL	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
ANTIMONY (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 146 (D4)			
1991 JAN	.450 <T	.410 <T	.630	.5[illegible]	.560	.	.	.
1991 FEB	.990	.540	.550	.[illegible]	.670	.760	.	.
1991 MAR	.530	.480 <T	.460 <T	.5[illegible]	.710	.680	.	.
1991 APR	.690	.560	.610	.660	.730	.860	.	.
1991 MAY	.410 <T	.480 <T	.470 <T	.560	.520	.510	.	.
1991 JUN	.500 <T	.510	.500 <T	.510	.580	.660	.	.
1991 JUL	.600	.660	.930	.710	.870	.800	.	.
1991 AUG	.	.	.540	.640	.590	.650	.	.
1991 OCT	.	.	.	.	.500 <T	.620	.	.
1992 APR	.460 <T	.	.	.	.940	.450 <T	.	.
1992 MAY	.	.510	.	.	.	.	.	.
1992 OCT	.500 <T	.	.	.	.410 <T	.590	.	.
SELENIUM (UG/L)			DET'N LIMIT = 1.00		GUIDELINE = 10 (A1)			
1991 JAN	BDL	BDL	BDL	BDL	BDL	.	.	.
1991 FEB	2.200 <T	BDL	BDL	BDL	1.700 <T	1.300 <T	.	.
1991 MAR	BDL	BDL	BDL	BDL	1.300 <T	1.100 <T	.	.
1991 APR	1.900 <T	2.100 <T	1.400 <T	1.600 <T	1.900 <T	1.600 <T	.	.
1991 MAY	BDL	BDL	BDL	1.100 <T	BDL	1.400 <T	.	.
1991 JUN	2.300 <T	2.400 <T	1.900 <T	2.200 <T	1.500 <T	1.800 <T	.	.
1991 JUL	2.000 <T	1.200 <T	1.200 <T	BDL	1.500 <T	1.300 <T	.	.
1991 AUG	.	.	BDL	1.300 <T	BDL	BDL	.	.
1991 OCT	.	.	.	.	1.300 <T	BDL	.	.
1992 APR	BDL	.	.	.	BDL	BDL	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	2.000 <T	.	.	.	3.200 <T	3.300 <T	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
STRONTIUM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = N/A			
1991 JAN	320.000	.	.	.	.	.	.	.
1991 FEB	320.000	.	.	.	.	.	.	.
1991 MAR	290.000	.	.	.	.	.	.	.
1991 APR	310.000	.	.	.	.	.	.	.
1991 MAY	210.000	.	.	.	.	.	.	.
1991 JUN	150.000	.	.	.	.	.	.	.
1991 JUL	360.000	.	.	.	.	.	.	.
1991 AUG	.	140.000	.	.	.	.	.	290.000
1991 SEP	.	.	400.000	1100.000	.	210.000	7500.000	.
1991 OCT	.	.	.	.	510.000	.	.	.
1991 NOV	.	.	420.000	930.000	ISM	ISM	10000.000	.
1992 MAR	.	.	510.000	1100.000	610.000	300.000	9600.000	.
1992 AUG	.	150.000	420.000	870.000	570.000	220.000	5740.000	.
TITANIUM (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = N/A			
1991 JAN	12.000	.	.	.	.	.	.	.
1991 FEB	10.000	.	.	.	.	.	.	.
1991 MAR	12.000	.	.	.	.	.	.	.
1991 APR	17.000	.	.	.	.	.	.	.
1991 MAY	18.000	.	.	.	.	.	.	.
1991 JUN	37.000	.	.	.	.	.	.	.
1991 JUL	20.000	.	.	.	.	.	.	.
1991 AUG	.	8.100	.	.	.	.	.	9.300
1991 SEP	.	.	3.200 <T	3.900 <T	.	2.800 <T	3.300 <T	.
1991 OCT	.	.	.	.	5.600	.	.	.
1991 NOV	.	.	6.900	9.000	ISM	ISM	7.600	.
1992 MAR	.	.	8.700	9.900	8.400	11.000	11.000	.
1992 AUG	.	12.000	14.000	15.000	12.000	13.000	15.000	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
STRONTIUM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = N/A			
1991 JAN	.	380.000	.	.	.	.	.	.
1991 FEB	.	380.000	.	.	.	.	.	.
1991 MAR	.	340.000	.	.	.	.	.	.
1991 APR	.	420.000	.	.	.	.	.	.
1991 MAY	.	410.000	.	.	.	.	.	.
1991 JUN	.	400.000	.	.	.	.	.	.
1991 JUL	.	380.000	.	.	.	.	.	.
1991 AUG	.	.	110.000	.	.	4100.000	.	.
1991 SEP	670.000	.	.	2800.000	4400.000	.	3500.000	490.000
1991 OCT	.	.	120.000	2800.000	4500.000	2800.000	3500.000	450.000
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	680.000	.	.	.	.	.	.	.
1992 APR	.	350.000	110.000	2400.000	4300.000	3000.000	4600.000	620.000
1992 AUG	620.000	.	.	.	.	.	.	.
1992 OCT	.	2800.000	130.000	2600.000	5100.000 RRV	.	3300.000	.
TITANIUM (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = N/A			
1991 JAN	.	14.000	.	.	.	.	.	.
1991 FEB	.	12.000	.	.	.	.	.	.
1991 MAR	.	13.000	.	.	.	.	.	.
1991 APR	.	25.000	.	.	.	.	.	.
1991 MAY	.	25.000	.	.	.	.	.	.
1991 JUN	.	55.000	.	.	.	.	.	.
1991 JUL	.	26.000	.	.	.	.	.	.
1991 AUG	.	.	8.400	.	.	10.000	.	.
1991 SEP	4.400 <T	.	.	3.600 <T	3.600 <T	.	4.800 <T	4.300 <T
1991 OCT	.	.	6.200	7.100	7.500	8.200	7.500	7.400
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	12.000	.	.	.	.	.	.	.
1992 APR	.	13.000	12.000	13.000	13.000	38.000	15.000	40.000
1992 AUG	14.000	.	.	.	.	.	.	.
1992 OCT	.	16.000	13.000	13.000	15.000	.	15.000	.

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
STRONTIUM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = N/A			
1991 JAN	3200.000	.	.	.	.	.	.	260.000
1991 FEB	3000.000	.	.	.	.	.	.	300.000
1991 MAR	2700.000	.	.	.	.	.	.	310.000
1991 APR	3300.000	.	.	.	.	.	.	280.000
1991 MAY	2700.000	.	.	.	.	.	.	180.000
1991 JUN	3000.000	.	.	.	.	.	.	150.000
1991 JUL	2200.000	.	.	.	.	.	.	250.000
1991 AUG	.	2900.000	.	.	570.000	360.000	.	.
1991 SEP	.	.	1100.000	3900.000	.	.	7000.000	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	2900.000	330.000	2100.000	4100.000	.	410.000	7251.000	.
TITANIUM (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = N/A			
1991 JAN	15.000	.	.	.	.	.	.	12.000
1991 FEB	12.000	.	.	.	.	.	.	10.000
1991 MAR	15.000	.	.	.	.	.	.	11.000
1991 APR	24.000	.	.	.	.	.	.	17.000
1991 MAY	24.000	.	.	.	.	.	.	18.000
1991 JUN	52.000	.	.	.	.	.	.	37.000
1991 JUL	26.000	.	.	.	.	.	.	19.000
1991 AUG	.	8.800	.	.	11.000	9.900	.	.
1991 SEP	.	.	4.500 <T	5.000 <T	.	.	4.500 <T	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	23.000	25.000	25.000	28.000	.	21.000	27.000	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
STRONTIUM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = N/A			
1991 JAN	1400.000	3000.000	3400.000	3300.000	1700.000	.	.	.
1991 FEB	1200.000	2800.000	2400.000	2900.000	1100.000	1200.000	.	.
1991 MAR	1400.000	3000.000	2900.000	2400.000	1600.000	1500.000	.	.
1991 APR	1400.000	2800.000	3500.000	610.000	1500.000	1500.000	.	.
1991 MAY	790.000	3000.000	980.000	290.000	750.000	760.000	.	.
1991 JUN	340.000	2900.000	2100.000	1200.000	350.000	340.000	.	.
1991 JUL	400.000	2700.000	790.000	270.000	500.000	300.000	.	.
1991 AUG	.	.	270.000	200.000	330.000	340.000	.	.
1991 OCT	.	.	.	.	430.000	440.000	.	.
1992 APR	430.000	.	.	.	960.000	640.000	.	.
1992 MAY	.	2800.000	.	.	.	.	.	.
1992 OCT	2600.000	.	.	.	490.000	500.000	.	.
TITANIUM (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = N/A			
1991 JAN	13.000	15.000	14.000	13.000	14.000	.	.	.
1991 FEB	13.000	13.000	10.000	11.000	12.000	12.000	.	.
1991 MAR	13.000	15.000	13.000	13.000	15.000	14.000	.	.
1991 APR	20.000	24.000	20.000	18.000	22.000	21.000	.	.
1991 MAY	25.000	25.000	19.000	19.000	24.000	25.000	.	.
1991 JUN	47.000	52.000	42.000	39.000	47.000	46.000	.	.
1991 JUL	24.000	28.000	20.000	19.000	20.000	20.000	.	.
1991 AUG	.	.	7.700	7.700	8.100	8.600	.	.
1991 OCT	.	.	.	.	7.600	6.600	.	.
1992 APR	12.000	.	.	.	14.000	12.000	.	.
1992 MAY	.	24.000	.	.	.	.	.	.
1992 OCT	17.000	.	.	.	14.000	13.000	.	.

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
THALLIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 13 (D4)			
1991 JAN	BDL	.	.	.		.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.		.	.	.	.	.
1991 JUL	.070 <T	.		.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	.120 <T
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	!SM	!SM	BDL	.
1992 MAR	.	.	BDL	BDL	.080 <T	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
URANIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 100 (A1)			
1991 JAN	.650	.	.	.	.	.	.	.
1991 FEB	.680	.	.	.	.	.	.	.
1991 [illegible]	.650	.	.	.	.	.	.	.
1991 [illegible]	.630	.	.	.	.	.	.	.
1991 MAY	.430 <T	.	.	.	.	.	.	.
1991 JUN	.490 <T	.	.	.	.	.	.	.
1991 JUL	.590	.	.	.	.	.	.	.
1991 AUG	.	.220 <T	.	.	.	.	.	2.100
1991 SEP	.	.	.740	.640	.	.570	.730	.
1991 OCT	.	.	.	.	.710	.	.	.
1991 NOV	.	.	.800	.630	!SM	!SM	.960	.
1992 MAR	.	.	.870	.800	.870	.760	.930	.
1992 AUG	.	.390 <T	.780	.670	.810	.720	1.200	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	MELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
THALLIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 13 (D4)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	.070 <T	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	.060 <T	.	.	BDL	.	.
1991 SEP	.070 <T	.	.	BDL	BDL	.	.060 <T	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	.070 <T	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	.090 <T	BDL	.080 <T
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	.070 <T	BDL	BDL	.	.080 <T	.
URANIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 100 (A1)			
1991 JAN	.	.920	.	.	.	.	.	.
1991 FEB	.	.990	.	.	.	.	.	.
1991 MAR	.	.740	.	.	.	.	.	.
1991 APR	.	.820	.	.	.	.	.	.
1991 MAY	.	.880	.	.	.	.	.	.
1991 JUN	.	.950	.	.	.	.	.	.
1991 JUL	.	.820	.	.	.	.	.	.
1991 AUG	.	.	1.200	.	.	.070 <T	.	.
1991 SEP	.700	.	.	1.900	.790	.	1.400	.770
1991 OCT	.	.	1.000	1.800	.770	.170 <T	1.500	.870
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	.860	.	.	.	.	.	.	.
1992 APR	.	.830	1.000	1.500	.600	.180 <T	1.000	1.000
1992 AUG	.860	.	.	.	.	.	.	.
1992 OCT	.	1.000	1.500	1.700	.710	.	1.400	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DE[illegible] PRE[illegible]D	[illegible]RGH WELL [illegible]RETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
THALLIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 13 (D4)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	[illegible]	.	.	.	.	.	.	BDL
1991 AUG	.	.060 <T	.	.	.070 <T	BDL	.	.
1991 SEP	.	.	.170 <T	BDL	.	.	BDL	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	BDL	BDL	.200 <T	BDL	.	BDL	BDL	.
URANIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 100 (A1)			
1991 JAN	.860	.	.	.	.	.	.	.590
1991 FEB	1.100	.	.	.	.	.	.	.640
1991 MAR	.860	.	.	.	.	.	.	.530
1991 APR	.830	.	.	.	.	.	.	.540
1991 MAY	1.000	.	.	.	.	.	.	.430 <T
1991 JUN	.800	.	.	.	.	.	.	.420 <T
1991 JUL	1.300	.	.	.	.	.	.	.540
1991 AUG	.	1.700	.	.	1.100	.320 <T	.	.
1991 SEP	.	.	4.200	.360 <T	.	.	1.700	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	1.000	2.800	4.000	.370 <T	.	.300 <T	2.100	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
THALLIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 13 (D4)			
1991 JAN	BDL	BDL	BDL	BDL	BDL	.	.	.
1991 FEB	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 JUN	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 JUL	BDL	.070 <T	BDL	BDL	BDL	BDL	.	.
1991 AUG	.	.	BDL	BDL	BDL	BDL	.	.
1991 OCT	.	.	.	.	BDL	BDL	.	.
1992 APR	BDL	.	.	.	BDL	BDL	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	BDL	.	.
URANIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 100 (A1)			
1991 JAN	.820	.950	.940	.700	.960	.	.	.
1991 FEB	.860	1.200	.750	.760	.830	.870	.	.
1991 MAR	.740	.870	.610	.650	.800	.770	.	.
1991 APR	.720	.940	.590	.490 <T	.670	.710	.	.
1991 MAY	.670	.920	.460 <T	.460 <T	.580	.620	.	.
1991 JUN	.580	.840	.540	.480 <T	.560	.580	.	.
1991 JUL	.850	1.100	.560	.520	.820	.540	.	.
1991 AUG	.	.	.490 <T	.490 <T	.300 <T	.400 <T	.	.
1991 OCT	.	.	.	.	.610	.750	.	.
1992 APR	.570	.	.	.	.820	.540	.	.
1992 MAY	.	1.100	.	.	.	.	.	.
1992 OCT	1.100	.	.	.	.810	.850	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
METALS								
VANADIUM (UG/L			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	.390 <T	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	.090 <T	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	!SM	!SM	BDL	.
1992 MAR	.	.	.110 <T	.060 <T	.160 <T	.130 <T	.250 <T	.
1992 AUG	.	.220 <T	BDL	BDL	BDL	BDL	.180 <T	.
ZINC (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 5000 (A3)			
1991 JAN	120.000	.	.	.	.	.	.	.
1991 FEB	130.000	.	.	.	.	.	.	.
1991 MAR	92.000	.	.	.	.	.	.	.
1991 APR	110.000	.	.	.	.	.	.	.
1991 MAY	130.000	.	.	.	.	.	.	.
1991 JUN	110.000	.	.	.	.	.	.	.
1991 JUL	120.000	.	.	.	.	.	.	.
1991 AUG	.	19.000	.	.	.	.	.	46.000
1991 SEP	.	.	130.000	180.000	.	70.000	35.000	.
1991 OCT	.	.	.	.	120.000	.	.	.
1991 NOV	.	.	160.000	210.000	!SM	!SM	46.000	.
1992 MAR	.	.	160.000	210.000	130.000	94.000	58.000	.
1992 AUG	.	32.000	160.000	210.000	1.400 <T	110.000	120.000	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
METALS								
VANADIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	.110 <T	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	.200 <T	BDL	.	BDL	BDL
1991 OCT	.	.	.070 <T	.190 <T	BDL	BDL	BDL	BDL
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	.800	.	.	.	.	.	.	.
1992 APR	.	.180 <T	.130 <T	.290 <T	.130 <T	BDL	.780	.300 <T
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	.300 <T	BDL	.320 <T	.140 <T	.	.540	.
ZINC (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 5000 (A3)			
1991 JAN	.	39.000	.	.	.	.	.	.
1991 FEB	.	36.000	.	.	.	.	.	.
1991 MAR	.	29.000	.	.	.	.	.	.
1991 APR	.	42.000	.	.	.	.	.	.
1991 MAY	.	40.000	.	.	.	.	.	.
1991 JUN	.	37.000	.	.	.	.	.	.
1991 JUL	.	40.000	.	.	.	.	.	.
1991 AUG	.	.	11.000	.	.	3.300	.	.
1991 SEP	21.000	.	.	9.100	50.000	.	77.000	40.000
1991 OCT	.	.	130.000	12.000	54.000	20.000	90.000	81.000
1991 NOV	!SM	.	.	.	.	.	.	.
1992 MAR	28.000	.	.	.	.	.	.	.
1992 APR	.	16.000	130.000	9.900	50.000	19.000	66.000	100.000
1992 AUG	32.000	.	.	.	.	.	.	.
1992 OCT	.	78.000	150.000	12.000	52.000	.	98.000	.

TABLE 4
ORINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
METALS								
VANADIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	.080 <T	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	.090 <T	.070 <T	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	BDL	.100 <T	.100 <T	BDL	.	BDL	BDL	.
ZINC (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 5000 (A3)			
1991 JAN	80.000	.	.	.	.	.	.	120.000
1991 FEB	75.000	.	.	.	.	.	.	130.000
1991 MAR	72.000	.	.	.	.	.	.	120.000
1991 APR	84.000	.	.	.	.	.	.	140.000
1991 MAY	95.000	.	.	.	.	.	.	130.000
1991 JUN	74.000	.	.	.	.	.	.	120.000
1991 JUL	100.000	.	.	.	.	.	.	110.000
1991 AUG	.	66.000	.	.	37.000	4.800	.	.
1991 SEP	.	.	220.000	14.000	.	.	61.000	.
1991 NOV	.	.	!SM	!SM	!SM	!SM	!SM	.
1992 MAY	85.000	69.000	230.000	21.000	.	4.800	100.000	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
METALS								
VANADIUM (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = N/A			
1991 JAN	BDL	BDL	BDL	BDL	BDL	.	.	.
1991 FEB	.120 <T	BDL	.060 <T	BDL	.110 <T	BDL	.	.
1991 MAR	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 APR	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 MAY	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 JUN	.070 <T	BDL	BDL	BDL	.070 <T	.090 <T	.	.
1991 JUL	BDL	BDL	BDL	BDL	BDL	BDL	.	.
1991 AUG	.	.	.070 <T	.080 <T	BDL	BDL	.	.
1991 OCT	.	.	.	.	BDL	BDL	.	.
1992 APR	.120 <T	.	.	.	.310 <T	.240 <T	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	.320 <T	.	.	.	.230 <T	.240 <T	.	.
ZINC (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 5000 (A3)			
1991 JAN	83.000	80.000	110.000	87.000	84.000	.	.	.
1991 FEB	83.000	83.000	110.000	100.000	86.000	120.000	.	.
1991 MAR	73.000	74.000	91.000	140.000	89.000	110.000	.	.
1991 APR	88.000	88.000	120.000	150.000	94.000	160.000	.	.
1991 MAY	84.000	82.000	130.000	140.000	80.000	110.000	.	.
1991 JUN	98.000	75.000	100.000	120.000	92.000	89.000	.	.
1991 JUL	98.000	77.000	110.000	120.000	110.000	140.000	.	.
1991 AUG	.	.	110.000	120.000	31.000	120.000	.	.
1991 OCT	.	.	.	.	93.000	140.000	.	.
1992 APR	130.000	.	.	.	100.000	62.000	.	.
1992 MAY	.	91.000	.	.	.	.	.	.
1992 OCT	88.000	.	.	.	87.000	100.000	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHLOROAROMATICS								
HEXACHLOROBUTADIENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 450 (D4)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
123-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
1234-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = N/A			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
1235-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = N/A			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
124-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 10000 (I)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
1245-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 38000 (D4)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
135-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
HEXACHLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 10 (C1)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
HEXACHLOROETHANE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 1900 (D4)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
OCTACHLOROSTYRENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 100 (D1)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
PENTACHLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 74000 (D4)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
236-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHLOROAROMATICS								
HEXACHLOROBUTADIENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 450 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
123-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1234-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1235-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = N/A			
	BDL	BDL	8DL	BDL	BDL	BDL	BDL	BDL
124-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 10000 (I)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1245-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 38000 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
135-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HEXACHLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 10 (C1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HEXACHLOROETHANE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 1900 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
OCTACHLOROSTYRENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 100 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PENTACHLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 74000 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
236-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHLOROAROMATICS								
HEXACHLOROBUTADIENE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = 450 (D4)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
123-TRICHLOROBENZENE (NG/L)	DET'N LIMIT = 5.000			GUIDELINE = N/A				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1234-TETCLOROBENZENE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = N/A				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1235-TETCLOROBENZENE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = N/A				
		BDL	BDL	BDL	BDL	BDL	BDL	BDL
124-TRICHLOROBENZENE (NG/L)	DET'N LIMIT = 5.000			GUIDELINE = 10000 (I)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1245-TETCLOROBENZENE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = 38000 (D4)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
135-TRICHLOROBENZENE (NG/L)	DET'N LIMIT = 5.000			GUIDELINE = N/A				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HEXACHLOROBENZENE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = 10 (C1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HEXACHLOROETHANE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = 1900 (D4)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
OCTACHLOROSTYRENE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = 100 (D1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PENTACHLOROBENZENE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = 74000 (D4)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
236-TRICHLOROTOLUENE (NG/L)	DET'N LIMIT = 5.000			GUIDELINE = N/A				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
CHLOROAROMATICS						
HEXACHLOROBUTADIENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 450 (D4)	
	BDL	BDL	BDL	.	BDL	. . .
123-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
1234-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
1235-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
124-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 10000 (I)	
	BDL	BDL	BDL	.	BDL	. . .
1245-TETCLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 38000 (D4)	
	BDL	BDL	BDL	.	BDL	. . .
135-TRICHLOROBENZENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
HEXACHLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 10 (C1)	
	BDL	BDL	BDL	.	BDL	. . .
HEXACHLOROETHANE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 1900 (D4)	
	BDL	BDL	BDL	.	BDL	. . .
OCTACHLOROSTYRENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 100 (D1)	
	BDL	BDL	BDL	.	BDL	. . .
PENTACHLOROBENZENE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 74000 (D4)	
	BDL	BDL	BDL	.	BDL	. . .
236-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHLOROAROMATICS								
245-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
26A-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHLOROAROMATICS								
245-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26A-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHLORDAROMATICS								
245-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
26A-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
CHLOROAROMATICS						
245-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
26A-TRICHLOROTOLUENE (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
CHLOROPHENOLS								
234-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = N/A			
5 SAMPLES !LA	.	.	.	.	.	.	.	.
2345-TETCHLOROPHENOL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
5 SAMPLES !LA	.	.	.	.	.	.	.	.
2356-TETCHLOROPHENOL (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
5 SAMPLES !LA	.	.	.	.	.	.	.	.
245-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 2600000 (D4)			
5 SAMPLES !LA	.	.	.	.	.	.	.	.
246-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 5000 (A1)			
5 SAMPLES !LA	.	.	.	.	.	.	.	.
PENTACHLOROPHENOL (NG/L)			DET'N LIMIT = 10.00		GUIDELINE = 60000 (A1)			
5 SAMPLES !LA	.	.	.	.	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
CHLOROPHENOLS								
234-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = N/A			
	.	BDL	.	.	.	.	.	.
2345-TETCHLOROPHENOL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	BDL	.	.	.	.	.	.
2356-TETCHLOROPHENOL (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	.	BDL	.	.	.	.	.	.
245-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 2600000 (D4)			
	.	BDL	.	.	.	.	.	.
246-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 5000 (A1)			
	.	BDL	.	.	.	.	.	.
PENTACHLOROPHENOL (NG/L)			DET'N LIMIT = 10.00		GUIDELINE = 60000 (A1)			
	.	BDL	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
CHLOROPHENOLS								
234-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
2345-TETCHLOROPHENOL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
2356-TETCHLOROPHENOL (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
245-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 2600000 (D4)			
	BDL	.	.	.	.	.	.	BDL
246-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 5000 (A1)			
	BDL	.	.	.	.	.	.	BDL
PENTACHLOROPHENOL (NG/L)			DET'N LIMIT = 10.00		GUIDELINE = 60000 (A1)			
	BDL	.	.	.	.	.	.	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
CHLOROPHENOLS						
234-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	.
2345-TETCHLOROPHENOL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	.
2356-TETCHLOROPHENOL (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	.
245-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 2600000 (D4)	
	BDL	BDL	.	.	.	.
246-TRICHLOROPHENOL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 5000 (A1)	
	BDL	BDL	.	.	.	.
PENTACHLOROPHENOL (NG/L)			DET'N LIMIT = 10.00		GUIDELINE = 60000 (A1)	
	BDL	BDL	.	.	.	.

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
PESTICIDES AND PCB								
ALDRIN (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (A1)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (G)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
BETA BHC (NG/L)			DET'N LIMIT = 1.00		GUIDELINE = 300 (G)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
LINDANE (GAMMA BHC) (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 4000 (A1)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
ALPHA CHLORDANE (NG/L)			DET'N LIMIT = 2.000		GUIDELINE = 7000 (A1)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
GAMMA CHLORDANE (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 7000 (A1)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
DIELDRIN (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 700 (A1)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
METHOXYCHLOR (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = 900000 (A1)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
ENDOSULFAN I (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 74000 (D4)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
ENDOSULFAN II (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 74000 (D4)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
ENDRIN (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 1600 (D3)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
ENDOSULFAN SULPHATE (NG/L)			DET'N LIMIT = 5.00		GUIDELINE = N/A			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
PESTICIDES AND PCB								
ALDRIN (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (G)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BETA BHC (NG/L)			DET'N LIMIT = 1.00		GUIDELINE = 300 (G)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LINDANE (GAMMA BHC) (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 4000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ALPHA CHLORDANE (NG/L)			DET'N LIMIT = 2.000		GUIDELINE = 7000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GAMMA CHLORDANE (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 7000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIELDRIN (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 700 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METHOXYCHLOR (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = 900000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ENDOSULFAN 1 (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 74000 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ENDOSULFAN II (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 74000 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ENDRIN (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 1600 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ENDOSULFAN SULPHATE (NG/L)			DET'N LIMIT = 5.00		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
PESTICIDES AND PCB								
ALDRIN (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (G)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BETA BHC (NG/L)			DET'N LIMIT = 1.00		GUIDELINE = 300 (G)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LINDANE (GAMMA BHC) (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 4000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ALPHA CHLORDANE (NG/L)			DET'N LIMIT = 2.000		GUIDELINE = 7000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
GAMMA CHLORDANE (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 7000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DIELDRIN (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 700 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METHOXYCHLOR (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = 900000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ENDOSULFAN 1 (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 74000 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ENDOSULFAN II (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 74000 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ENDRIN (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 1600 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ENDOSULFAN SULPHATE (NG/L)			DET'N LIMIT = 5.00		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
PESTICIDES AND PCB						
ALDRIN (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (A1)	
	BDL	BDL	BDL	.	BDL	. . .
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (G)	
	BDL	BDL	BDL	.	BDL	. . .
BETA BHC (NG/L)			DET'N LIMIT = 1.00		GUIDELINE = 300 (G)	
	BDL	BDL	BDL	.	BDL	. . .
LINDANE (GAMMA BHC) (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 4000 (A1)	
	BDL	BDL	BDL	.	BDL	. . .
ALPHA CHLORDANE (NG/L)			DET'N LIMIT = 2.000		GUIDELINE = 7000 (A1)	
	BDL	BDL	BDL	.	BDL	. . .
GAMMA CHLORDANE (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 7000 (A1)	
	BDL	BDL	BDL	.	BDL	. . .
DIELDRIN (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 700 (A1)	
	BDL	BDL	BDL	.	BDL	. . .
METHOXYCHLOR (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = 900000 (A1)	
	BDL	BDL	BDL	.	BDL	. . .
ENDOSULFAN 1 (NG/L)			DET'N LIMIT = 2.00		GUIDELINE = 74000 (D4)	
	BDL	BDL	BDL	.	BDL	. . .
ENDOSULFAN II (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 74000 (D4)	
	BDL	BDL	BDL	.	BDL	. . .
ENDRIN (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 1600 (D3)	
	BDL	BDL	BDL	.	BDL	. . .
ENDOSULFAN SULPHATE (NG/L)			DET'N LIMIT = 5.00		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
PESTICIDES AND PCB								
HEPTACHLOR EPOXIDE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 3000 (A1)			
67 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
HEPTACHLOR (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 3000 (A1)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
MIREX (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
OXYCHLORDANE (NG/L)			DET'N LIMIT = 2.000		GUIDELINE = N/A			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
O,P-DDT (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
92 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
PCB (NG/L)			DET'N LIMIT = 20.00		GUIDELINE = 3000 (A2)			
91 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
P,P-DDD (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
P,P-DDE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 30000 (A1)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
P,P-DDT (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
87 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
TOXAPHENE (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A1)			
63 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW
AMETRINE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 300000 (D3)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	!AW

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
PESTICIDES AND PCB								
HEPTACHLOR EPOXIDE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 3000 (A1)			
	BDL	BDL	BDL	BDL	BDL	!QU	BDL	!QU
HEPTACHLOR (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 3000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MIREX (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
OXYCHLORDANE (NG/L)			DET'N LIMIT = 2.000		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
O,P-DDT (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCB (NG/L)			DET'N LIMIT = 20.00		GUIDELINE = 3000 (A2)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
P,P-DDD (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
P,P-DDE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 30000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
P,P-DDT (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOXAPHENE (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AMETRINE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 300000 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
PESTICIDES AND PCB								
HEPTACHLOR EPOXIDE (NG/L)	DET'N LIMIT - 1.000			GUIDELINE = 3000 (A1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HEPTACHLOR (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = 3000 (A1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MIREX (NG/L)	DET'N LIMIT = 5.000			GUIDELINE = N/A				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
OXYCHLORDANE (NG/L)	DET'N LIMIT = 2.000			GUIDELINE = N/A				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
O,P-DDT (NG/L)	DET'N LIMIT = 5.000			GUIDELINE = 30000 (A1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PCB (NG/L)	DET'N LIMIT = 20.00			GUIDELINE = 3000 (A2)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
P,P-DDD (NG/L)	DET'N LIMIT = 5.000			GUIDELINE = 30000 (A1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
P,P-DDE (NG/L)	DET'N LIMIT = 1.000			GUIDELINE = 30000 (A1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
P,P-DDT (NG/L)	DET'N LIMIT = 5.000			GUIDELINE = 30000 (A1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOXAPHENE (NG/L)	DET'N LIMIT = 500.0			GUIDELINE = 5000 (A1)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AMETRINE (NG/L)	DET'N LIMIT = 50.0			GUIDELINE = 300000 (D3)				
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
PESTICIDES AND PCB								
HEPTACHLOR EPOXIDE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 3000 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
HEPTACHLOR (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 3000 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
MIREX (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = N/A			
	BDL	BDL	BDL	.	BDL	.	.	.
OXYCHLORDANE (NG/L)			DET'N LIMIT = 2.000		GUIDELINE = N/A			
	BDL	BDL	BDL	.	BDL	.	.	.
O,P-DDT (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
PCB (NG/L)			DET'N LIMIT = 20.00		GUIDELINE = 3000 (A2)			
	BDL	BDL	BDL	.	BDL	.	.	.
P,P-DDD (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
P,P-DDE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 30000 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
P,P-DDT (NG/L)			DET'N LIMIT = 5.000		GUIDELINE = 30000 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
TOXAPHENE (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
AMETRINE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 300000 (D3)			
	BDL	BDL	.	.	.	.	.	.

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
PESTICIDES AND PCB								
ATRAZINE (NG/L)			DL 'N LIMIT = 50.0		GUIDELINE = 60000 (A2)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	IAW	.	.	.	.	.	IAW
1991 SEP	.	.	IAW	IAW	.	IAW	IAW	.
1991 OCT	.	.	.	.	IAW	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	50.000 <T	.
ATRATONE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
76 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
CYANAZINE (BLADEX) (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 10000 (A2)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
DESETHYL ATRAZINE (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 60000 (A2)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	IAW	.	.	.	.	.	IAW
1991 SEP	.	.	IAW	IAW	.	IAW	IAW	.
1991 OCT	.	.	.	.	IAW	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
PESTICIDES AND PCB								
ATRAZINE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 60000 (A2)			
1991 JAN	.	440.000 <T	.	.	.	.	.	.
1991 FEB	.	450.000 <T	.	.	.	.	.	.
1991 MAR	.	460.000 <T	.	.	.	.	.	.
1991 APR	.	280.000 <T	.	.	.	.	.	.
1991 MAY	.	210.000 <T	.	.	.	.	.	.
1991 JUN	.	210.000 <T	.	.	.	.	.	.
1991 JUL	.	!AW	.	.	.	.	.	.
1991 AUG	.	.	!AW	.	.	!AW	.	.
1991 SEP	!AW	.	.	!AW	!AW	.	!AW	!AW
1991 OCT	.	.	!AW	!AW	!AW	!AW	!AW	!AW
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	180.000 <T	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
ATRATONE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CYANAZINE (BLADEX) (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 10000 (A2)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DESETHYL ATRAZINE (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 60000 (A2)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	220.000 <T	.	.	.	.	.	.
1991 MAR	.	220.000 <T	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	!AW	.	.	.	.	.	.
1991 AUG	.	.	!AW	.	.	!AW	.	.
1991 SEP	!AW	.	.	!AW	!AW	.	!AW	!AW
1991 OCT	.	.	!AW	!AW	!AW	!AW	!AW	!AW
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
PESTICIDES AND PCB								
ATRAZINE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 60000 (A2)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	!IS	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	!AW	.	.	.	.	.	.	BDL
1991 AUG	.	!AW	.	.	!AW	!AW	.	.
1991 SEP	.	.	!AW	!AW	.	.	!AW	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.
ATRATONE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CYANAZINE (BLADEX) (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 10000 (A2)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DESETHYL ATRAZINE (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 60000 (A2)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	!IS	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	!AW	.	.	.	.	.	.	BDL
1991 AUG	.	!AW	.	.	!AW	!AW	.	.
1991 SEP	.	.	!AW	!AW	.	.	!AW	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
PESTICIDES AND PCB								
ATRAZINE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 60000 (A2)			
1991 JAN	BDL	BDL	.	.	.	.	.	.
1991 FEB	BDL	BDL	.	.	.	.	.	.
1991 MAR	180.000 <T	BDL	.	.	.	.	.	.
1991 APR	80.000 <T	BDL	.	.	.	.	.	.
1991 MAY	90.000 <T	BDL	.	.	.	.	.	.
1991 JUN	BDL	BDL	.	.	.	.	.	.
1991 JUL	!AW	!AW	.	.	.	.	.	.
1992 APR	BDL	.	.	.	.	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	.	.	.	.
ATRATONE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
	BDL	BDL	.	.	.	.	.	.
CYANAZINE (BLADEX) (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 10000 (A2)			
	BDL	BDL	.	.	.	.	.	.
DESETHYL ATRAZINE (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 60000 (A2)			
1991 JAN	BDL	BDL	.	.	.	.	.	.
1991 FEB	BDL	BDL	.	.	.	.	.	.
1991 MAR	BDL	BDL	.	.	.	.	.	.
1991 APR	BDL	BDL	.	.	.	.	.	.
1991 MAY	BDL	BDL	.	.	.	.	.	.
1991 JUN	BDL	BDL	.	.	.	.	.	.
1991 JUL	!AW	!AW	.	.	.	.	.	.
1992 APR	BDL	.	.	.	.	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
PESTICIDES AND PCB								
DESETHYL SIMAZINE (NG/)			DET'N LIMIT = 200.0		GUIDELINE = 10000 (A2)			
76 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
PROMETONE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 52500 (D3)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
PROPAZINE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 700000 (D3)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
PROMETRYNE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 1000 (A2)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
METRIBUZIN (SENCOR) (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 80000 (A1)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
SIMAZINE (NG/L)			DET'N LIMIT = 50.00		GUIDELINE = 10000 (A2)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
ALACHLOR (LASSO) (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A2)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
METOLACHLOR (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 50000 (A2)			
82 SAMPLES	BDL	BDL	BDL	BDL	BDL	BDL	BDL	IAW
HEXACLCYCLOPENTADIEN (NG/L)			DET'N LIMIT = 5.00		GUIDELINE = 206000 (D4)			
65 SAMPLES	BDL	IQU	BDL	BDL	BDL	BDL	BDL	IAW

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
PESTICIDES AND PCB								
DESETHYL SIMAZINE (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 10000 (A2)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PROMETONE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 52500 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PROPAZINE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 700000 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PROMETRYNE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 1000 (A2)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METRIBUZIN (SENCOR) (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 80000 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SIMAZINE (NG/L)			DET'N LIMIT = 50.00		GUIDELINE = 10000 (A2)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ALACHLOR (LASSO) (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A2)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METOLACHLOR (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 50000 (A2)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HEXACLCYCLOPENTADIEN (NG/L)			DET'N LIMIT = 5.00		GUIDELINE = 206000 (D4)			
	BDL	BDL	IQU	IQU	IQU	IQU	IQU	IQU

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
PESTICIDES AND PCB								
DESETHYL SIMAZINE (NG/L) DET'N LIMIT = 200.0 GUIDELINE = 10000 (A2)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PROMETONE (NG/L) DET'N LIMIT = 50.000 GUIDELINE = 52500 (D3)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PROPAZINE (NG/L) DET'N LIMIT = 50.000 GUIDELINE = 700000 (D3)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PROMETRYNE (NG/L) DET'N LIMIT = 50.000 GUIDELINE = 1000 (A2)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METRIBUZIN (SENCOR)) DET'N LIMIT = 100.0 GUIDELINE = 80000 (A1)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SIMAZINE (NG/L) DET'N LIMIT = 50.00 GUIDELINE = 10000 (A2)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ALACHLOR (LASSO) (NG/L) DET'N LIMIT = 500.0 GUIDELINE = 5000 (A2)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
METOLACHLOR (NG/L) DET'N LIMIT = 500.0 GUIDELINE = 50000 (A2)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HEXACLCYCLOPENTADIEN (NG/L) DET'N LIMIT = 5.00 GUIDELINE = 206000 (D4)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
PESTICIDES AND PCB								
DESETHYL SIMAZINE (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 10000 (A2)			
	BDL	BDL	.	.	.	.	.	.
PROMETONE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 52500 (D3)			
	BDL	BDL	.	.	.	.	.	.
PROPAZINE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 700000 (D3)			
	BDL	BDL	.	.	.	.	.	.
PROMETRYNE (NG/L)			DET'N LIMIT = 50.000		GUIDELINE = 1000 (A2)			
	BDL	BDL	.	.	.	.	.	.
METRIBUZIN (SENCOR) (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 80000 (A1)			
	BDL	BDL	.	.	.	.	.	.
SIMAZINE (NG/L)			DET'N LIMIT = 50.00		GUIDELINE = 10000 (A2)			
	BDL	BDL	.	.	.	.	.	.
ALACHLOR (LASSO) (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A2)			
	BDL	BDL	.	.	.	.	.	.
METOLACHLOR (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 50000 (A2)			
	BDL	BDL	.	.	.	.	.	.
HEXACLCYCLOPENTADIEN (NG/L)			DET'N LIMIT = 5.00		GUIDELINE = 206000 (D4)			
	BDL	BDL	BDL	.	BDL	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

PHENOLICS (UG/L)	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PERMITTED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
	PHENOLICS							
	DET'N LIMIT = 0.2			GUIDELINE = N/A				
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	.800 <T	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	.200 <T	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	.400 <T	BDL	BDL	BDL	.
1992 AUG	.	1.000 <T	.400 <T	.400 <T	BDL	BDL	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

PHENOLICS (UG/L	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
	PHENOLICS)		DET'N LIMIT = 0.2		GUIDELINE = N/A			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	.600 <T	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	.800 <T	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	1.000 <T	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	.400 <T	.400 <T	.400 <T	.400 <T	.400 <T	.600 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	.400 <T	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

PHENOLICS (UG/L	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
	PHENOLICS							
PHENOLICS (UG/L	)		DET'N LIMIT =	0.2	GUIDELINE = N/A			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	.400 <T	.	.	.	.	.	.	BDL
1991 APR	.400 <T	.	.	.	.	.	.	BDL
1991 MAY	.400 <T	.	.	.	.	.	.	!NR
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
PHENOLICS (UG/L	PHENOLICS)		DET'N LIMIT =	0.2	GUIDELINE = N/A			
1991 JAN	.600 <T	BDL	.	.	.	.	.	.
1991 FEB	BDL	BDL	.	.	.	.	.	.
1991 MAR	BDL	BDL	.	.	.	.	.	.
1991 APR	1.000 <T	BDL	.	.	.	.	.	.
1991 MAY	BDL	BDL	.	.	.	.	.	.
1991 JUN	1.000 <T	BDL	.	.	.	.	.	.
1991 JUL	BDL	BDL	.	.	.	.	.	.
1992 APR	BDL	.	.	.	.	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
POLYAROMATIC HYDROCARBONS								
PHENANTHRENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
ANTHRACENE (NG/L)			DET'N LIMIT = 1.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
FLUORANTHENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 42000 (D4)			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
PYRENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
BENZO(A)ANTHRACENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
CHRYSENE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
DIMETH. BENZ(A)ANTHR (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
BENZO(E) PYRENE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
BENZO(B) FLUORANTHEN (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
PERYLENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
BENZO(K) FLUORANTHEN (NG/L)			DET'N LIMIT = 1.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
BENZO(A) PYRENE (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = 10 (A1)			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
POLYAROMATIC HYDROCARBONS								
PHENANTHRENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
ANTHRACENE (NG/L)			DET'N LIMIT = 1.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
FLUORANTHENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 42000 (D4)			
	.	BDL	!AW	.	.	!AW	.	.
PYRENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
BENZO(A)ANTHRACENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
CHRYSENE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
DIMETH. BENZ(A)ANTHR (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
BENZO(E) PYRENE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
BENZO(B) FLUORANTHEN (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
PERYLENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
BENZO(K) FLUORANTHEN (NG/L)			DET'N LIMIT = 1.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
BENZO(A) PYRENE (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = 10 (A1)			
	.	BDL	!AW	.	.	!AW	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
POLYAROMATIC HYDROCARBONS								
PHENANTHRENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
ANTHRACENE (NG/L)			DET'N LIMIT = 1.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
FLUORANTHENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 42000 (D4)			
	BDL	!AW	.	.	!AW	!AW	.	BDL
PYRENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
BENZO(A)ANTHRACENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
CHRYSENE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
DIMETH. BENZ(A)ANTHR (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
BENZO(E) PYRENE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
BENZO(B) FLUORANTHEN (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
PERYLENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
BENZO(K) FLUORANTHEN (NG/L)			DET'N LIMIT = 1.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
BENZO(A) PYRENE (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = 10 (A1)			
	BDL	!AW	.	.	!AW	!AW	.	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
POLYAROMATIC HYDROCARBONS						
PHENANTHRENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
ANTHRACENE (NG/L)			DET'N LIMIT = 1.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
FLUORANTHENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 42000 (D4)	
	BDL	BDL	BDL	.	BDL	. . .
PYRENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
BENZO(A)ANTHRACENE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
CHRYSENE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
DIMETH. BENZ(A)ANTHR (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
BENZO(E) PYRENE (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
BENZO(B) FLUORANTHEN (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
PERYLENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
BENZO(K) FLUORANTHEN (NG/L)			DET'N LIMIT = 1.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
BENZO(A) PYRENE (NG/L)			DET'N LIMIT = 5.0		GUIDELINE = 10 (A1)	
	BDL	BDL	BDL	.	BDL	. . .

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOS ER RAW	ARKEL SPRING #6 PRETREAT	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
POLYAROMATIC HYDROCARBONS								
BENZO(G,H,I) PERYLEN (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
DIBENZO(A,H) ANTHRAC (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
INDENO(1,2,3-C,D) PY (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
BENZO(B) CHRYSENE (NG/L)			DET'N LIMIT = 2.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW
CORONENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
48 SAMPLES	BDL	!AW	.	.	.	.	.	!AW

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
POLYAROMATIC HYDROCARBONS								
BENZO(G,H,I) PERYLEN (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
DIBENZO(A,H) ANTHRAC (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
INDENO(1,2,3-C,D) PY (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
BENZO(B) CHRYSENE (NG/L)			DET'N LIMIT = 2.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.
CORONENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	.	BDL	!AW	.	.	!AW	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
POLYAROMATIC HYDROCARBONS								
BENZO(G,H,I) PERYLEN (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
DIBENZO(A,H) ANTHRAC (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
INDENO(1,2,3-C,D) PY (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
BENZO(B) CHRYSENE (NG/L)			DET'N LIMIT = 2.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL
CORONENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A			
	BDL	!AW	.	.	!AW	!AW	.	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
POLYAROMATIC HYDROCARBONS						
BENZO(G,H,I) PERYLEN (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
DIBENZO(A,H) ANTHRAC (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
INDENO(1,2,3-C,D) PY (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
BENZO(B) CHRYSENE (NG/L)			DET'N LIMIT = 2.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .
CORONENE (NG/L)			DET'N LIMIT = 10.0		GUIDELINE = N/A	
	BDL	BDL	BDL	.	BDL	. . .

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
SPECIFIC PESTICIDES								
TOXAPHENE (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A1)			
29 SAMPLES	BDL	.	.	.	.	.	.	.
2,4,5-T (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 280000 (A1)			
5 SAMPLES	!LA	.	.	.	.	.	.	.
2,4-D (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 100000 (A1)			
5 SAMPLES	!LA	.	.	.	.	.	.	.
2,4-DB (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = N/A			
5 SAMPLES	!LA	.	.	.	.	.	.	.
2,4 D PROPIONIC ACID (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = N/A			
5 SAMPLES	!LA	.	.	.	.	.	.	.
DICAMBA (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 120000 (A1)			
5 SAMPLES	!LA	.	.	.	.	.	.	.
2,4,5-TP (SILVEX) (NG/L)			DET'N LIMIT = 20.00		GUIDELINE = 10000 (A1)			
5 SAMPLES	!LA	.	.	.	.	.	.	.
DIAZINON (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 20000 (A1)			
5 SAMPLES	BDL	.	.	.	.	.	.	.
DICHLOROVOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
2 SAMPLES	!QU	.	.	.	.	.	.	.
CHLORPYRIFOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
5 SAMPLES	BDL	.	.	.	.	.	.	.
ETHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 35000 (G)			
5 SAMPLES	BDL	.	.	.	.	.	.	.
MALATHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 190000 (A1)			
5 SAMPLES	BDL	.	.	.	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
SPECIFIC PESTICIDES								
TOXAPHENE (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A1)			
	.	BDL	.	.	.	.	.	.
2,4,5-T (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 280000 (A1)			
	.	BDL	.	.	.	.	.	.
2,4-D (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 100000 (A1)			
	.	BDL	.	.	.	.	.	.
2,4-DB (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = N/A			
	.	BDL	.	.	.	.	.	.
2,4 D PROPIONIC ACID (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = N/A			
	.	BDL	.	.	.	.	.	.
DICAMBA (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 120000 (A1)			
	.	BDL	.	.	.	.	.	.
2,4,5-TP (SILVEX) (NG/L)			DET'N LIMIT = 20.00		GUIDELINE = 10000 (A1)			
	.	BDL	.	.	.	.	.	.
DIAZINON (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 20000 (A1)			
	.	!SM	.	.	.	.	.	.
DICHLOROVOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	!SM	.	.	.	.	.	.
CHLORPYRIFOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	!SM	.	.	.	.	.	.
ETHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 35000 (G)			
	.	!SM	.	.	.	.	.	.
MALATHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 190000 (A1)			
	.	!SM	.	.	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
SPECIFIC PESTICIDES								
TOXAPHENE (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A1)			
	BDL	.	.	.	.	.	.	BDL
2,4,5-T (NG/L)			DET'N LIMIT =		GUIDELINE = 280000 (A1)			
	BDL	.	.	.	.	.	.	BDL
2,4-D (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 100000 (A1)			
	BDL	.	.	.	.	.	.	BDL
2,4-DB (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
2,4 D PROPIONIC ACID (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
DICAMBA (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 120000 (A1)			
	BDL	.	.	.	.	.	.	BDL
2,4,5-TP (SILVEX) (NG/L)			DET'N LIMIT = 20.00		GUIDELINE = 10000 (A1)			
	BDL	.	.	.	.	.	.	BDL
DIAZINON (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 20000 (A1)			
	BDL	.	.	.	.	.	.	BDL
DICHLOROVOS (NG/L			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	IQU	.	.	.	.	.	.	IQU
CHLORPYRIFOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
ETHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 35000 (G)			
	BDL	.	.	.	.	.	.	BDL
MALATHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 190000 (A1)			
	BDL	.	.	.	.	.	.	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
SPECIFIC PESTICIDES						
TOXAPHENE (NG/L)			DET'N LIMIT = 500.0		GUIDELINE = 5000 (A1)	
	BDL	BDL	BDL	.	BDL	. . .
2,4,5-T (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 280000 (A1)	
	BDL	BDL	.	.	. . .	. . .
2,4-D (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = 100000 (A1)	
	BDL	BDL	.	.	. . .	. . .
2,4-DB (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = N/A	
	BDL	BDL	.	.	. . .	. . .
2,4 D PROPIONIC ACID (NG/L)			DET'N LIMIT = 100.0		GUIDELINE = N/A	
	BDL	BDL	.	.	. . .	. . .
DICAMBA (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 120000 (A1)	
	BDL	BDL	.	.	. . .	. . .
2,4,5-TP (SILVEX) (NG/L)			DET'N LIMIT = 20.00		GUIDELINE = 10000 (A1)	
	BDL	BDL	.	.	. . .	. . .
DIAZINON (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 20000 (A1)	
	BDL	BDL	.	.	. . .	. . .
DICHLOROVOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	.	.	. . .	. . .
CHLORPYRIFOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	.	.	. . .	. . .
ETHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 35000 (G)	
	BDL	BDL	.	.	. . .	. . .
MALATHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 190000 (A1)	
	BDL	BDL	.	.	. . .	. . .

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
SPECIFIC PESTICIDES								
MEVINPHOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
5 SAMPLES	BDL	.	.	.	.	.	.	.
METHYL PARATHION (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 9000 (D3)			
5 SAMPLES	BDL	.	.	.	.	.	.	.
METHYLTRITHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
5 SAMPLES	BDL	.	.	.	.	.	.	.
PARATHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 50000 (A1)			
5 SAMPLES	BDL	.	.	.	.	.	.	.
PHORATE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 2000 (A2)			
5 SAMPLES	BDL	.	.	.	.	.	.	.
RELDAN (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
5 SAMPLES	BDL	.	.	.	.	.	.	.
RONNEL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
5 SAMPLES	BDL	.	.	.	.	.	.	.
CARBOFURAN (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 90000 (A1)			
6 SAMPLES	BDL	.	.	.	.	.	.	.
CHLORPROPHAM (CIPC) (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 350000 (G)			
6 SAMPLES	BDL	.	.	.	.	.	.	.
DIALLATE (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
6 SAMPLES	BDL	.	.	.	.	.	.	.
EPTAM (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
6 SAMPLES	BDL	.	.	.	.	.	.	.
IPC (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
6 SAMPLES	BDL	.	.	.	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
SPECIFIC PESTICIDES								
MEVINPHOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	!SM	.	.	.	.	.	.
METHYL PARATHION (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 9000 (D3)			
	.	!SM	.	.	.	.	.	.
METHYLTRITHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	!SM	.	.	.	.	.	.
PARATHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 50000 (A1)			
	.	!SM	.	.	.	.	.	.
PHORATE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 2000 (A2)			
	.	!SM	.	.	.	.	.	.
RELDAN (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	!SM	.	.	.	.	.	.
RONNEL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	.	!SM	.	.	.	.	.	.
CARBOFURAN (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 90000 (A1)			
	.	BDL	.	.	.	.	.	.
CHLORPROPHAM (CIPC) (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 350000 (G)			
	.	BDL	.	.	.	.	.	.
DIALLATE (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
	.	BDL	.	.	.	.	.	.
EPTAM (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
	.	BDL	.	.	.	.	.	.
IPC (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
	.	BDL	.	.	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
SPECIFIC PESTICIDES								
MEVINPHOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
METHYL PARATHION (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 9000 (D3)			
	BDL	.	.	.	.	.	.	BDL
METHYLTRITHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
PARATHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 50000 (A1)			
	BDL	.	.	.	.	.	.	BDL
PHORATE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 2000 (A2)			
	BDL	.	.	.	.	.	.	BDL
RELDAN (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
RONNEL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
CARBOFURAN (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 90000 (A1)			
	BDL	.	.	.	.	.	.	BDL
CHLORPROPHAM (CIPC) (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 350000 (G)			
	BDL	.	.	.	.	.	.	BDL
DIALLATE (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
EPTAM (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL
IPC (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
SPECIFIC PESTICIDES						
MEVINPHOS (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	. . .
METHYL PARATHION (NG/L)			DET'N LIMIT = 50.0		GUIDELINE = 9000 (D3)	
	BDL	BDL	.	.	.	. . .
METHYLTRITHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	. . .
PARATHION (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 50000 (A1)	
	BDL	BDL	.	.	.	. . .
PHORATE (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = 2000 (A2)	
	BDL	BDL	.	.	.	. . .
RELDAN (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	. . .
RONNEL (NG/L)			DET'N LIMIT = 20.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	. . .
CARBOFURAN (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 90000 (A1)	
	BDL	BDL	.	.	.	. . .
CHLORPROPHAM (CIPC) (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 350000 (G)	
	BDL	BDL	.	.	.	. . .
DIALLATE (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	. . .
EPTAM (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	. . .
IPC (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = N/A	
	BDL	BDL	.	.	.	. . .

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
SPECIFIC PESTICIDES								
PROPOXUR (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 140000 (D3)			
6 SAMPLES	BDL	.	.	.	.	.	.	.
CARBARYL (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 90000 (A1)			
6 SAMPLES	BDL	.	.	.	.	.	.	.
BUTYLATE (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 245000 (D3)			
6 SAMPLES	BDL	.	.	.	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
SPECIFIC PESTICIDES								
PROPOXUR (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 140000 (D3)			
	.	BDL	.	.	.	.	.	.
CARBARYL (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 90000 (A1)			
	.	BDL	.	.	.	.	.	.
BUTYLATE (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 245000 (D3)			
	.	BDL	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
SPECIFIC PESTICIDES								
PROPOXUR (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 140000 (D3)			
	BDL	.	.	.	.	.	.	BDL
CARBARYL (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 90000 (A1)			
	BDL	.	.	.	.	.	.	BDL
BUTYLATE (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 245000 (D3)			
	BDL	.	.	.	.	.	.	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
SPECIFIC PESTICIDES						
PROPOXUR (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 140000 (D3)	
	BDL	BDL	.	.	.	.
CARBARYL (NG/L)			DET'N LIMIT = 200.0		GUIDELINE = 90000 (A1)	
	BDL	BDL	.	.	.	.
BUTYLATE (NG/L)			DET'N LIMIT = 2000.0		GUIDELINE = 245000 (D3)	
	BDL	BDL	.	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
VOLATILES								
BENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOLUENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 24 (A3)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	.050 <T	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
ETHYLBENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 2.4 (A3)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDI	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	.050 <T	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	.100 <T	.
1992 MAR	.	.	BDL	.050 <T	.100 <T	.050 <T	BDL	.
1992 AUG	.	BDL	.100 <T	.100 <T	.100 <T	.100 <T	.050 <T	.
P-XYLENE (UG/L)		.	DET'N LIMIT = 0.10		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
VOLATILES								
BENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOLUENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 24 (A3)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
ETHYLBENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 2.4 (A3)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	.050 <T	.	.	.	.	.	.
1991 MAR	.	.050 <T	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	.050 <T	.050 <T	.050 <T	.050 <T	.050 <T	.050 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	.050 <T	BDL	BDL	.050 <T	BDL	BDL	BDL
1992 AUG	.050 <T	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
P-XYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
VOLATILES								
BENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOLUENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 24 (A3)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.
ETHYLBENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 2.4 (A3)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	.050 <T	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	.050 <T
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	.050 <T
1991 JUN	BDL	.	.	.	.	.	.	.050 <T
1991 JUL	.100 <T	.	.	.	.	.	.	.150 <T
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	.100 <T	.100 <T	.100 <T	BDL	.100 <T	.
1992 MAY	BDL	.050 <T	BDL	BDL	.	BDL	BDL	.
P-XYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
VOLATILES								
BENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
TOLUENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 24 (A3)			
1991 JAN	BDL	BDL	BDL	.	BDL	.	.	.
1991 FEB	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAR	BDL	BDL	BDL	.	BDL	.	.	.
1991 APR	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAY	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUN	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUL	BDL	BDL	BDL	.	BDL	.	.	.
1991 AUG	.	.	BDL	.	BDL	.	.	.
1991 OCT	.	.	.	.	BDL	.	.	.
1992 APR	BDL	.	.	.	BDL	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.	.	.
ETHYLBENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 2.4 (A3)			
1991 JAN	BDL	.050 <T	BDL	.	BDL	.	.	.
1991 FEB	BDL	.050 <T	.050 <T	.	BDL	.	.	.
1991 MAR	.050 <T	BDL	BDL	.	.050 <T	.	.	.
1991 APR	BDL	.050 <T	BDL	.	BDL	.	.	.
1991 MAY	.050 <T	.050 <T	BDL	.	BDL	.	.	.
1991 JUN	.100 <T	.150 <T	.100 <T	.	.050 <T	.	.	.
1991 JUL	.100 <T	.150 <T	.100 <T	.	BDL	.	.	.
1991 AUG	.	.	.100 <T	.	BDL	.	.	.
1991 OCT	.	.	.	.	BDL	.	.	.
1992 APR	.050 <T	.	.	.	.050 <T	.	.	.
1992 MAY	.	.100 <T	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.	.	.
P-XYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	.	BDL	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
VOLATILES								
M-XYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
O-XYLENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
STYRENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 100 (D1)			
1991 JAN	.100 <T	.	.	.	.	.	.	.
1991 FEB	.050 <T	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	[illegible]	.	.	.	.	.	.	.
1991 JUN	.050 <T	.	.	.	.	.	.	.
1991 JUL	.050 <T	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	.100 <T	.100 <T	.	.050 <T	.050 <T	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	.050 <T	BDL	.050 <T	BDL	.100 <T	.
1992 MAR	.	.	BDL	BDL	.050 <T	BDL	BDL	.
1992 AUG	.	BDL	BDL	.100 <T	.050 <T	.050 <T	BDL	.
1,1-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 7 (D1)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
VOLATILES								
M-XYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BOL	BDL	BDL	BDL
O-XYLENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
STYRENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 100 (D1)			
1991 JAN	.	.050 <T	.	.	.	.	.	.
1991 FEB	.	.100 <T	.	.	.	.	.	.
1991 MAR	.	.100 <T	.	.	.	.	.	.
1991 APR	.	.050 <T	.	.	.	.	.	.
1991 MAY	.	.050 <T	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	.050 <T	BDL	.	BDL	BDL
1991 OCT	.	.	.100 <T	.150 <T	.100 <T	.150 <T	.100 <T	.100 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	.100 <T	.050 <T	.100 <T	.150 <T	.100 <T	.100 <T	.050 <T
1992 AUG	.050 <T	.	.	.	.	.	.	.
1992 OCT	.	BDL	.050 <T	.050 <T	BDL	.	BDL	.
1,1-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 7 (D1)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
VOLATILES								
M-XYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
O-XYLENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
STYRENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 100 (D1)			
1991 JAN	.050 <T	.	.	.	.	.	.	.100 <T
1991 FEB	.100 <T	.	.	.	.	.	.	.100 <T
1991 MAR	BDL	.	.	.	.	.	.	.150 <T
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	.100 <T
1991 JUN	BDL	.	.	.	.	.	.	.100 <T
1991 JUL	.100 <T	.	.	.	.	.	.	.300 <T
1991 AUG	.	.100 <T	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	.150 <T	.150 <T	.150 <T	BDL	.100 <T	.
1992 MAY	BDL	.100 <T	BDL	.100 <T	.	BDL	BDL	.
1,1-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 7 (D1)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	.200 <T	.100 <T	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	.100 <T	.100 <T	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	.100 <T	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
VOLATILES								
M-XYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	.	BDL	.	.	.
O-XYLENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 300 (A3*)			
	BDL	BDL	BDL	.	BDL	.	.	.
STYRENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 100 (D1)			
1991 JAN	BDL	.100 <T	BDL	.	BDL	.	.	.
1991 FEB	.050 <T	.100 <T	.150 <T	.	.050 <T	.	.	.
1991 MAR	.150 <T	.100 <T	.050 <T	.	.150 <T	.	.	.
1991 APR	BDL	.100 <T	BDL	.	BDL	.	.	.
1991 MAY	.050 <T	.050 <T	.050 <T	.	BDL	.	.	.
1991 JUN	.100 <T	.150 <T	.100 <T	.	.100 <T	.	.	.
1991 JUL	.100 <T	.100 <T	.100 <T	.	BDL	.	.	.
1991 AUG	.	.	.150 <T	.	BDL	.	.	.
1991 OCT	.	.	.	.	.100 <T	.	.	.
1992 APR	.050 <T	.	.	.	.150 <T	.	.	.
1992 MAY	.	.150 <T	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	.100 <T	.	.	.
1,1-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 7 (D1)			
1991 JAN	BDL	BDL	BDL	.	BDL	.	.	.
1991 FEB	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAR	BDL	BDL	BDL	.	BDL	.	.	.
1991 APR	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAY	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUN	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUL	BDL	BDL	BDL	.	BDL	.	.	.
1991 AUG	.	.	BDL	.	.100 <T	.	.	.
1991 OCT	.	.	.	.	BDL	.	.	.
1992 APR	BDL	.	.	.	BDL	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
VOLATILES								
METHYLENE CHLORIDE (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 50 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
T12-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 70 (D1)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
1,1-DICHLOROETHANE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = N/A			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
VOLATILES								
METHYLENE CHLORIDE (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 50 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
T12-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 70 (D1)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
1,1-DICHLOROETHANE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = N/A			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	BDL	BDL
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
VOLATILES								
METHYLENE CHLORIDE (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 50 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
T12-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 70 (D1)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	.100 <T	.
1,1-DICHLOROETHANE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = N/A			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	.900 <T	.800 <T	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	.900 <T	.700 <T	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	.900 <T	.100 <T	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
VOLATILES								
METHYLENE CHLORIDE (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 50 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
T12-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 70 (D1)			
1991 JAN	BDL	BDL	BDL	.	BDL	.	.	.
1991 FEB	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAR	BDL	BDL	BDL	.	BDL	.	.	.
1991 APR	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAY	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUN	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUL	BDL	BDL	BDL	.	BDL	.	.	.
1991 AUG	.	.	BDL	.	BDL	.	.	.
1991 OCT	.	.	.	.	BDL	.	.	.
1992 APR	BDL	.	.	.	BDL	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.	.	.
1,1-DICHLOROETHANE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = N/A			
1991 JAN	BDL	BDL	BDL	.	BDL	.	.	.
1991 FEB	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAR	BDL	BDL	BDL	.	BDL	.	.	.
1991 APR	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAY	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUN	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUL	BDL	BDL	BDL	.	BDL	.	.	.
1991 AUG	.	.	BDL	.	.700 <T	.	.	.
1991 OCT	.	.	.	.	BDL	.	.	.
1992 APR	BDL	.	.	.	.200 <T	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
VOLATILES								
CHLOROFORM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	.100 <T
1991 SEP	.	.	BDL	4.900	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
111,TRICHLOROETHANE (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = 200 (D1)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
1,2 DICHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
VOLATILES								
CHLOROFORM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	.100 <T	.	.	.	.	.	.
1991 MAY	.	.100 <T	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	.200 <T	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	.100 <T	BDL	.300 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
111,TRICHLOROETHANE (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = 200 (D1)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	.040 <T	BDL
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
1,2 DICHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
VOLATILES								
CHLOROFORM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)			
1991 JAN	.100 <T	.	.	.	.	.	.	1.200
1991 FEB	BDL	.	.	.	.	.	.	.200 <T
1991 MAR	.100 <T	.	.	.	.	.	.	.200 <T
1991 APR	.200 <T	.	.	.	.	.	.	.500 <T
1991 MAY	.200 <T	.	.	.	.	.	.	1.400
1991 JUN	.100 <T	.	.	.	.	.	.	1.500
1991 JUL	.200 <T	.	.	.	.	.	.	.200 <T
1991 AUG	.	.100 <T	.	.	BDL	1.000 <T	.	.
1991 SEP	.	.	.200 <T	BDL	.	.	BDL	.
1991 NOV	.	.	.200 <T	BDL	BDL	.400 <T	BDL	.
1992 MAY	BDL	.200 <T	.200 <T	BDL	.	1.400	BDL	.
111,TRICHLOROETHANE (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = 200 (D1)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	.060 <T
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	.240	.	.	6.000	.300	.	.
1991 SEP	.	.	.720	BDL	.	.	.060 <T	.
1991 NOV	.	.	.560	BDL	1.700	.140 <T	.060 <T	.
1992 MAY	BDL	.560	.520	BDL	.	.420	.060 <T	.
1,2 DICHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CARBON TETRACHLORIDE (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING
VOLATILES						
CHLOROFORM (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)	
1991 JAN	1.600	.200 <T	.600 <T	.	1.800	. . .
1991 FEB	.800 <T	.300 <T	.200 <T	.	.800 <T	. . .
1991 MAR	.700 <T	.200 <T	.100 <T	.	.600 <T	. . .
1991 APR	2.400	.200 <T	.400 <T	.	1.700	. . .
1991 MAY	1.300	.200 <T	.600 <T	.	1.300	. . .
1991 JUN	1.400	.200 <T	1.000	.	1.400	. . .
1991 JUL	3.100	.300 <T	.200 <T	.	.500 <T	. . .
1991 AUG	.	.	.900 <T	.	1.300	. . .
1991 OCT	.	.	.	.	1.100	. . .
1992 APR	BDL	.	.	.	.700 <T	. . .
1992 MAY	.	.400 <T	.	.	.	. . .
1992 OCT	.300 <T	.	.	.	4.700	. . .
111,TRICHLOROETHANE (UG/L)			DET'N LIMIT = 0.02		GUIDELINE = 200 (D1)	
1991 JAN	BDL	BDL	BDL	.	BDL	. . .
1991 FEB	BDL	BDL	.020 <T	.	BDL	. . .
1991 MAR	.040 <T	BDL	BDL	.	.040 <T	. . .
1991 APR	BDL	BDL	BDL	.	BDL	. . .
1991 MAY	BDL	BDL	BDL	.	BDL	. . .
1991 JUN	BDL	BDL	BDL	.	BDL	. . .
1991 JUL	BDL	BDL	BDL	.	.060 <T	. . .
1991 AUG	.	.	BDL	.	.300	. . .
1991 OCT	.	.	.	.	BDL	. . .
1992 APR	BDL	.	.	.	.080 <T	. . .
1992 MAY	.	BDL	.	.	.	. . .
1992 OCT	BDL	.	.	.	BDL	. . .
1,2 DICHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (A1)	
	BDL	BDL	BDL	.	BDL	. . .
CARBON TETRACHLORIDE (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 5 (A1)	
	BDL	BDL	BDL	.	BDL	. . .

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
VOLATILES								
1,2-DICHLOROPROPANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TRICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 50 (A1)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
DICHLOROBROMOMETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 350 (A1+)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
112-TRICHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 0.6 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
VOLATILES								
1,2-DICHLOROPROPANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TRICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 50 (A1)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	.200 <T	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	.200 <T	BDL
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	.300 <T	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	.200 <T	.
DICHLOROBROMOMETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 350 (A1+)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	.100 <T	.	.	.	.	.	.
1991 APR	.	.100 <T	.	.	.	.	.	.
1991 MAY	.	.100 <T	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	.400 <T	BDL	.500
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
112-TRICHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 0.6 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
VOLATILES								
1,2-DICHLOROPROPANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TRICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 50 (A1)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	1.600	1.600	.	.
1991 SEP	.	.	.100 <T	.100 <T	.	.	.700 <T	.
1991 NOV	.	.	.300 <T	.100 <T	1.300	.900 <T	.700 <T	.
1992 MAY	BDL	BDL	.300 <T	.100 <T	.	2.500	.700 <T	.
DICHLOROBROMOMETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 350 (A1+)			
1991 JAN	BDL	.	.	.	.	.	.	1.650
1991 FEB	BDL	.	.	.	.	.	.	.650
1991 MAR	BDL	.	.	.	.	.	.	.600
1991 APR	BDL	.	.	.	.	.	.	1.150
1991 MAY	BDL	.	.	.	.	.	.	2.050
1991 JUN	BDL	.	.	.	.	.	.	1.300
1991 JUL	BDL	.	.	.	.	.	.	.650
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.
112-TRICHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 0.6 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
VOLATILES								
1,2-DICHLOROPROPANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 5 (D1)			
	BDL	BDL	BDL	.	BDL	.	.	.
TRICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 50 (A1)			
1991 JAN	BDL	BDL	.100 <T	.	BDL	.	.	.
1991 FEB	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAR	.100 <T	BDL	BDL	.	.100 <T	.	.	.
1991 APR	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAY	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUN	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUL	BDL	BDL	BDL	.	BDL	.	.	.
1991 AUG	.	.	BDL	.	1.300	.	.	.
1991 OCT	.	.	.	.	BDL	.	.	.
1992 APR	BDL	.	.	.	.700 <T	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.	.	.
DICHLOROBROMOMETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 350 (A1+)			
1991 JAN	3.050	.300 <T	.850	.	2.150	.	.	.
1991 FEB	2.700	.400 <T	.550	.	2.600	.	.	.
1991 MAR	2.350	.300 <T	.400 <T	.	2.050	.	.	.
1991 APR	4.350	.350 <T	.650	.	3.550	.	.	.
1991 MAY	3.750	.200 <T	.900	.	3.250	.	.	.
1991 JUN	1.800	.300 <T	.900	.	2.500	.	.	.
1991 JUL	6.400	.500 <T	.500	.	1.200	.	.	.
1991 AUG	.	.	1.550	.	.900	.	.	.
1991 OCT	.	.	.	.	3.500	.	.	.
1992 APR	.850	.	.	.	1.300	.	.	.
1992 MAY	.	.800	.	.	.	.	.	.
1992 OCT	.550	.	.	.	7.800	.	.	.
112-TRICHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 0.6 (D4)			
	BDL	BDL	BDL	.	BDL	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
VOLATILES								
CHLORODIBROMOMETHANE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
TETRACHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 65 (A5)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
VOLATILES								
CHLORODIBROMOMETHANE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	.800 <T	BDL	.800 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
TETRACHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 65 (A5)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	BDL	.050 <T	BDL
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EM PI	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
VOLATILES								
CHLORODIBROMOMETHANE (UG/L)		DET'N LIMIT = 0.10			GUIDELINE = 350 (A1+)			
1991 JAN	BDL	.	.	.	.	.	.	2.600
1991 FEB	BDL	.	.	.	.	.	.	2.200
1991 MAR	BDL	.	.	.	.	.	.	1.600
1991 APR	BDL	.	.	.	.	.	.	1.900
1991 MAY	BDL	.	.	.	.	.	.	2.000
1991 JUN	BDL	.	.	.	.	.	.	.700 <T
1991 JUL	BDL	.	.	.	.	.	.	1.500
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.
TETRACHLOROETHYLENE (UG/L)		DET'N LIMIT = 0.05			GUIDELINE = 65 (A5)			
1991 JAN	BDL	.	.	.	.	.	.	BDL
1991 FEB	BDL	.	.	.	.	.	.	BDL
1991 MAR	BDL	.	.	.	.	.	.	BDL
1991 APR	BDL	.	.	.	.	.	.	BDL
1991 MAY	BDL	.	.	.	.	.	.	BDL
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	BDL
1991 AUG	.	BDL	.	.	1.500	BDL	.	.
1991 SEP	.	.	.600	BDL	.	.	.050 <T	.
1991 NOV	.	.	.700	BDL	3.600	BDL	BDL	.
1992 MAY	BDL	BDL	.800	BDL	.	BDL	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
VOLATILES								
CHLORODIBROMOMETHANE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 350 (A1+)			
1991 JAN	4.800	.600 <T	1.200	.	3.700	.	.	.
1991 FEB	6.300	.700 <T	1.300	.	6.000	.	.	.
1991 MAR	4.900	.400 <T	.900 <T	.	4.600	.	.	.
1991 APR	6.400	.700 <T	1.000 <T	.	6.100	.	.	.
1991 MAY	6.200	.400 <T	1.200	.	5.900	.	.	.
1991 JUN	1.800	BDL	.500 <T	.	3.600	.	.	.
1991 JUL	9.300	1.100	1.100	.	2.100	.	.	.
1991 AUG	.	.	1.900	.	1.100	.	.	.
1991 OCT	.	.	.	.	7.200	.	.	.
1992 APR	3.900	.	.	.	3.000	.	.	.
1992 MAY	.	2.400	.	.	.	.	.	.
1992 OCT	.900 <T	.	.	.	10.000	.	.	.
TETRACHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 65 (A5)			
1991 JAN	BDL	BDL	BDL	.	BDL	.	.	.
1991 FEB	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAR	BDL	BDL	BDL	.	BDL	.	.	.
1991 APR	BDL	BDL	BDL	.	BDL	.	.	.
1991 MAY	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUN	BDL	BDL	BDL	.	BDL	.	.	.
1991 JUL	BDL	BDL	BDL	.	.050 <T	.	.	.
1991 AUG	.	.	BDL	.	BDL	.	.	.
1991 OCT	.	.	.	.	BDL	.	.	.
1992 APR	BDL	.	.	.	BDL	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
VOLATILES								
BROMOFORM (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 350 (A1+)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	BDL	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
1122-TETCHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 0.17 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 2 (D1)			
41 SAMPLES	.	BDL	BDL	BDL	BDL	BDL	BDL	.
C12-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 70 (D1)			
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.
CHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 1510 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 3750 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
VOLATILES								
BROMOFORM (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 350 (A1+)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	.800 <T	BDL	.800 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.
1122-TETCHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 0.17 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 2 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
C12-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 70 (D1)			
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	.500 <T	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	.400 <T	.
CHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 1510 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 3750 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
VOLATILES								
BROMOFORM (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 350 (A1+)			
1991 JAN	BDL	.	.	.	.	.	.	1.600 <T
1991 FEB	BDL	.	.	.	.	.	.	4.800
1991 MAR	BDL	.	.	.	.	.	.	2.400
1991 APR	BDL	.	.	.	.	.	.	1.800 <T
1991 MAY	BDL	.	.	.	.	.	.	.600 <T
1991 JUN	BDL	.	.	.	.	.	.	BDL
1991 JUL	BDL	.	.	.	.	.	.	2.000 <T
1991 AUG	.	BDL	.	.	BDL	BDL	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	BDL	BDL	.
1122-TETCHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 0.17 (D4)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VINYL CHLORIDE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 2 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	.
C12-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 70 (D1)			
1991 NOV	.	.	.800 <T	.100 <T	1.700	BDL	1.700	.
1992 MAY	BDL	BDL	.700 <T	.100 <T	.	.100 <T	1.500	.
CHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 1510 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 3750 (D3)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
VOLATILES								
BROMOFORM (UG/L)			DET'N LIMIT = 0.20		GUIDELINE = 350 (A1+)			
1991 JAN	2.200	.200 <T	.200 <T	.	2.000 <T	.	.	.
1991 FEB	5.600	.800 <T	2.600	.	6.400	.	.	.
1991 MAR	4.200	.400 <T	1.200 <T	.	4.200	.	.	.
1991 APR	2.200	.800 <T	1.000 <T	.	2.600	.	.	.
1991 MAY	3.600	.200 <T	.600 <T	.	3.200	.	.	.
1991 JUN	.800 <T	BDL	BDL	.	2.200	.	.	.
1991 JUL	4.600	1.600 <T	1.400 <T	.	1.800 <T	.	.	.
1991 AUG	.	.	1.000 <T	.	.400 <T	.	.	.
1991 OCT	.	.	.	.	5.600	.	.	.
1992 APR	9.200	.	.	.	3.000	.	.	.
1992 MAY	.	4.800	.	.	.	.	.	.
1992 OCT	.800 <T	.	.	.	2.800	.	.	.
1122-TETCHLOROETHANE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 0.17 (D4)			
	BDL	BDL	BDL	.	BDL	.	.	.
VINYL CHLORIDE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 2 (D1)			
	BDL	BDL	.	.	BDL	.	.	.
C12-DICHLOROETHYLENE (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 70 (D1)			
1992 APR	BDL	.	.	.	.100 <T	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	BDL	.	.	.	BDL	.	.	.
CHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 1510 (D3)			
	BDL	BDL	BDL	.	BDL	.	.	.
1,4-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 5 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
1,3-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.10		GUIDELINE = 3750 (D3)			
	BDL	BDL	BDL	.	BDL	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
VOLATILES								
1,2-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 200 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ETHYLENE DIBROMIDE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 50 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOTL TRIHALOMETHANES (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 350 (A1)			
1991 JAN	BDL	.	.	.	.	.	.	.
1991 FEB	BDL	.	.	.	.	.	.	.
1991 MAR	BDL	.	.	.	.	.	.	.
1991 APR	BDL	.	.	.	.	.	.	.
1991 MAY	BDL	.	.	.	.	.	.	.
1991 JUN	BDL	.	.	.	.	.	.	.
1991 JUL	BDL	.	.	.	.	.	.	.
1991 AUG	.	BDL	.	.	.	.	.	BDL
1991 SEP	.	.	BDL	4.900 <T	.	BDL	BDL	.
1991 OCT	.	.	.	.	BDL	.	.	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAR	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 AUG	.	BDL	BDL	BDL	BDL	BDL	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
VOLATILES								
1,2-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 200 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ETHYLENE DIBROMIDE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 50 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOTL TRIHALOMETHANES (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 350 (A1)			
1991 JAN	.	BDL	.	.	.	.	.	.
1991 FEB	.	BDL	.	.	.	.	.	.
1991 MAR	.	BDL	.	.	.	.	.	.
1991 APR	.	BDL	.	.	.	.	.	.
1991 MAY	.	BDL	.	.	.	.	.	.
1991 JUN	.	BDL	.	.	.	.	.	.
1991 JUL	.	BDL	.	.	.	.	.	.
1991 AUG	.	.	BDL	.	.	BDL	.	.
1991 SEP	BDL	.	.	BDL	BDL	.	BDL	BDL
1991 OCT	.	.	BDL	BDL	BDL	2.100 <T	BDL	2.400 <T
1991 NOV	BDL	.	.	.	.	.	.	.
1992 MAR	BDL	.	.	.	.	.	.	.
1992 APR	.	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1992 AUG	BDL	.	.	.	.	.	.	.
1992 OCT	.	BDL	BDL	BDL	BDL	.	BDL	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	U OF G WELL RAW	DEAN WELL PRETREATED	EDINBURGH WELL PRETREATED	EMMA ST WELL PRETREATED	SACCO WELL PRETREATED	SMALLFIELD WELL PRETREATED	WATER ST WELL PRETREATED	WOODS PUMP TREATED
VOLATILES								
1,2-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 200 (A1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ETHYLENE DIBROMIDE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 50 (D1)			
	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TOTL TRIHALOMETHANES (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 350 (A1)			
1991 JAN	BDL	.	.	.	.	.	.	7.000
1991 FEB	BDL	.	.	.	.	.	.	7.850
1991 MAR	BDL	.	.	.	.	.	.	4.650 <T
1991 APR	BDL	.	.	.	.	.	.	5.300
1991 MAY	BDL	.	.	.	.	.	.	6.050
1991 JUN	BDL	.	.	.	.	.	.	3.500 <T
1991 JUL	BDL	.	.	.	.	.	.	4.350 <T
1991 AUG	.	BDL	.	.	BDL	.950 <T	.	.
1991 SEP	.	.	BDL	BDL	.	.	BDL	.
1991 NOV	.	.	BDL	BDL	BDL	BDL	BDL	.
1992 MAY	BDL	BDL	BDL	BDL	.	1.400 <T	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	PAISLEY WELL TREATED	U OF G WELL TREATED	DIST. SYSTEM VICTORIA RD FREE FLOW	DIST. SYSTEM VICTORIA RD STANDING	DIST. SYSTEM IMPERIAL RD N FREE FLOW	DIST. SYSTEM IMPERIAL RD N STANDING		
VOLATILES								
1,2-DICHLOROBENZENE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 200 (A1)			
	BDL	BDL	BDL	.	BDL	.	.	.
ETHYLENE DIBROMIDE (UG/L)			DET'N LIMIT = 0.05		GUIDELINE = 50 (D1)			
	BDL	BDL	BDL	.	BDL	.	.	.
TOTL TRIHALOMETHANES (UG/L)			DET'N LIMIT = 0.50		GUIDELINE = 350 (A1)			
1991 JAN	11.550	1.350 <T	2.850 <T	.	9.700	.	.	.
1991 FEB	15.300	2.200 <T	4.700 <T	.	15.700	.	.	.
1991 MAR	12.200	1.350 <T	2.650 <T	.	11.450	.	.	.
1991 APR	15.300	1.950 <T	2.950 <T	.	14.000	.	.	.
1991 MAY	14.750	1.000 <T	3.350 <T	.	13.550	.	.	.
1991 JUN	5.800	.500 <T	2.400 <T	.	9.700	.	.	.
1991 JUL	23.400	3.500 <T	3.200 <T	.	5.600	.	.	.
1991 AUG	.	.	5.350	.	3.700 <T	.	.	.
1991 OCT	.	.	.	.	17.400	.	.	.
1992 APR	13.950	.	.	.	8.000	.	.	.
1992 MAY	.	BDL	.	.	.	.	.	.
1992 OCT	2.550 <T	.	.	.	25.300	.	.	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	WOODS PUMP RAW	ERAMOSA RIVER RAW	ARKEL SPRING #6 PRETREATED	ARKEL SPRING #7 PRETREATED	ARKEL SPRING #8 PRETREATED	CARTER WELL PRETREATED	CLYTHE WELL PRETREATED	MEMBRO WELL PRETREATED
RADIONUCLIDES								
COBALT 60 (BQ/L)			DET'N LIMIT = 0.70		GUIDELINE = N/A			
6 SAMPLES	.	.	BDL	BDL	BDL	BDL	BDL	.
CESIUM 134 (BQ/L)			DET'N LIMIT = 0.70		GUIDELINE = N/A			
6 SAMPLES	.	.	BDL	BDL	BDL	BDL	BDL	.
CESIUM 137 (BQ/L)			DET'N LIMIT = 0.70		GUIDELINE = 50 (A1)			
6 SAMPLES	.	.	BDL	BDL	BDL	BDL	BDL	.
GROSS ALPHA COUNT (BQ/L)			DET'N LIMIT = 0.04		GUIDELINE = 0.55 (D1)			
1992 MAR	.	.	.270	.060	.100	.130	.140	.
GROSS BETA COUNT (BQ/L)			DET'N LIMIT = 0.04		GUIDELINE = N/A			
1992 MAR	.	.	.190	.050	.120	.110	.130	.
TRITIUM (BQ/L)			DET'N LIMIT = 7.00		GUIDELINE = 40000 (A1)			
6 SAMPLES	.	.	BDL	BDL	BDL	BDL	BDL	.
IODINE 131 (BQ/L)			DET'N LIMIT = 0.70		GUIDELINE = 10 (A1)			
6 SAMPLES	.	.	BDL	BDL	BDL	BDL	BDL	.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992 GUELPH WELL SUPPLY

	SILVERCREK WELL PRETREATED	PAISLEY WELL RAW	BURKES WELL PRETREATED	CALICO WELL PRETREATED	DOWNEY WELL PRETREATED	HELMAR WELL PRETREAED	PARK WELL PRETREATED	QUEENSDALE PRETREATED
RADIONUCLIDES								
COBALT 60 (BQ/L)			DET'N LIMIT = 0.70		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	.
CESIUM 134 (BQ/L)			DET'N LIMIT = 0.70		GUIDELINE = N/A			
	BDL	.	.	.	.	.	.	.
CESIUM 137 (BQ/L)			DET'N LIMIT = 0.70		GUIDELINE = 50 (A1)			
	BDL	.	.	.	.	.	.	.
GROSS ALPHA COUNT (BQ/L)			DET'N LIMIT = 0.04		GUIDELINE = 0.55 (D1)			
1992 MAR	.100	.	.	.	.	.	.	.
GROSS BETA COUNT (BQ/L)			DET'N LIMIT = 0.04		GUIDELINE = N/A			
1992 MAR	.130	.	.	.	.	.	.	.
TRITIUM (BQ/L)			DET'N LIMIT = 7.00		GUIDELINE = 40000 (A1)			
	BDL	.	.	.	.	.	.	.
IODINE 131 (BQ/L)			DET'N LIMIT = 0.70		GUIDELINE = 10 (A1)			
	BDL	.	.	.	.	.	.	.

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
BACTERIOLOGICAL				
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0	(A1)
STANDARD PLATE COUNT MEMBRANE FILT.	CT/ML	0	500/ML	(A3)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A	
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100ML	(A1)
CHEMISTRY (FLD)				
FIELD COMBINED CHLORINE RESIDUAL	MG/L	0	N/A	
FIELD TOTAL CHLORINE RESIDUAL	MG/L	0	N/A	
FIELD FREE CHLORINE RESIDUAL	MG/L	0	N/A	
FIELD PH	DMNSLESS	N/A	6.5-8.5	(A4)
FIELD TEMPERATURE	DEG.C	N/A	15.0	(A3)
FIELD TURBIDITY	FTU	N/A	1.0	(A1)
CHEMISTRY (LAB)				
ALKALINITY	MG/L	0.20	30-500	(A4)
AMMONIUM TOTAL	MG/L	0.002	0.05	(F2)
CALCIUM	MG/L	0.20	100.0	(F2)
CHLORIDE	MG/L	0.20	250.0	(A3)
COLOUR	TCU	0.50	5.0	(A3)
CONDUCTIVITY	UMHO/CM	1.00	400.0	(F2)
CYANIDE	MG/L	0.001	0.2	(A1)
DISSOLVED ORGANIC CARBON	MG/L	0.10	5.0	(A3)
FLUORIDE	MG/L	0.01	1.5*	(A1)
HARDNESS	MG/L	0.50	80-100	(A4)
IONCAL	DMNSLESS	N/A	N/A	
LANGELIERS INDEX	DMNSLESS	N/A	N/A	
MAGNESIUM	MG/L	0.10	30.0	(F2)
NITRATES (TOTAL)	MG/L	0.005	10.0	(A1)
NITRITE	MG/L	0.001	1.0	(A1)
NITROGEN TOTAL KJELDAHL	MG/L	0.02	N/A	
PH	DMNSLESS	N/A	6.5-8.5	(A4)
PHOSPHORUS FIL REACT	MG/L	0.0005	N/A	
PHOSPHORUS TOTAL	MG/L	0.002	0.4	(F2)
POTASSIUM	MG/L	0.010	10.0	(F2)
RESIDUE FILTRATE (CALCULATED TDS)	MG/L	N/A	500.0	(A3)
SODIUM	MG/L	0.20	200.0	(A4)
SULPHATE	MG/L	0.20	500.0	(A4)
TURBIDITY	FTU	0.05	1.0	(A1)

* The Maximum Acceptable Concentration (MAC) for naturally occurring fluoride in drinking water is 2.4 mg/L.

CHLOROAROMATICS				
1,2,3-TRICHLOROBENZENE	NG/L	5.0	N/A	
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.0	N/A	
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.0	N/A	
1,2,4-TRICHLOROBENZENE	NG/L	5.0	10000	(1)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.0	38000	(D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.0	N/A	
2,3,6-TRICHLOROTOLUENE	NG/L	5.0	N/A	
2,4,5-TRICHLOROTOLUENE	NG/L	5.0	N/A	
2,6A-TRICHLOROTOLUENE	NG/L	5.0	N/A	
HEXACHLOROBENZENE (HCB)	NG/L	1.0	10	(C1)
HEXACHLOROBUTADIENE	NG/L	1.0	450	(D4)
HEXACHLOROETHANE	NG/L	1.0	1900	(D4)
OCTACHLOROSTYRENE	NG/L	1.0	N/A	
PENTACHLOROBENZENE	NG/L	1.0	74000	(D4)
CHLOROPHENOLS				
2,3,4-TRICHLOROPHENOL	NG/L	100.0	N/A	
2,3,4,5-TETRACHLOROPHENOL	NG/L	20.0	N/A	
2,3,5,6-TETRACHLOROPHENOL	NG/L	10.0	N/A	

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
2,4,5-TRICHLOROPHENOL	NG/L	100.0	2600000	(D4)
2,4,6-TRICHLOROPHENOL	NG/L	20.0	5000	(A1)
PENTACHLOROPHENOL	NG/L	10.0	60000	(A1)
METALS				
ALUMINUM	UG/L	0.10	100	(A4)
ANTIMONY	UG/L	0.05	146	(D4)
ARSENIC	UG/L	0.10	25	(A1)
BARIUM	UG/L	0.05	1000	(A2)
BERYLLIUM	UG/L	0.05	6800	(D4)
BORON	UG/L	2.00	5000	(A1)
CADMIUM	UG/L	0.05	5	(A1)
CHROMIUM	UG/L	0.50	50	(A1)
COBALT	UG/L	0.02	N/A	
COPPER	UG/L	0.50	1000	(A3)
IRON	UG/L	6.00	300	(A3)
LEAD	UG/L	0.05	10	(A1)
MANGANESE	UG/L	0.05	50	(A3)
MERCURY	UG/L	0.02	1	(A1)
MOLYBDENUM	UG/L	0.05	N/A	
NICKEL	UG/L	0.20	350	(D3)
SELENIUM	UG/L	1.00	10	(A1)
SILVER	UG/L	0.05	N/A	
STRONTIUM	UG/L	0.10	N/A	
THALLIUM	UG/L	0.05	13	(D4)
TITANIUM	UG/L	0.50	N/A	
URANIUM	UG/L	0.05	100	(A1)
VANADIUM	UG/L	0.05	N/A	
ZINC	UG/L	0.20	5000	(A3)
POLYNUCLEAR AROMATIC HYDROCARBONS				
ANTHRACENE	NG/L	1.0	N/A	
BENZO(A) ANTHRACENE	NG/L	20.0	N/A	
BENZO(A) PYRENE	NG/L	5.0	10	(A1)
BENZO(B) CHRYSENE	NG/L	2.0	N/A	
BENZO(B) FLUORANTHENE	NG/L	10.0	N/A	
BENZO(E) PYRENE	NG/L	50.0	N/A	
BENZO(G,H,I) PERYLENE	NG/L	20.0	N/A	
BENZO(K) FLUORANTHENE	NG/L	1.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
CORONENE	NG/L	10.0	N/A	
DIBENZO(A,H) ANTHRACENE	NG/L	10.0	N/A	
DIMETHYL BENZO(A) ANTHRACENE	NG/L	5.0	N/A	
FLUORANTHENE	NG/L	20.0	42000	(D4)
INDENO(1,2,3-C,D) PYRENE	NG/L	20.0	N/A	
PERYLENE	NG/L	10.0	N/A	
PHENANTHRENE	NG/L	10.0	N/A	
PYRENE	NG/L	20.0	N/A	
PESTICIDES & PCB				
ALACHLOR (LASSO)	NG/L	500.0	5000	(A2)
ALDRIN	NG/L	1.0	700	(A1)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700	(G)
ALPHA CHLORDANE	NG/L	2.0	7000	(A1)
AMETRINE	NG/L	50.0	300000	(D3)
ATRATONE	NG/L	50.0	N/A	
ATRAZINE	NG/L	50.0	60000	(A2)
DESETHYL ATRAZINE	NG/L	200.0	60000	(A2)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300	(G)
CYANAZINE (BLADEX)	NG/L	100.0	10000	(A2)
DIELDRIN	NG/L	2.0	700	(A1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000	(D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	5.0	74000	(D4)
ENDOSULFAN SULPHATE (THIODAN SULPHATE)	NG/L	5.0	N/A	

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
ENDRIN	NG/L	5.0	1600	(D3)
GAMMA CHLORDANE	NG/L	2.0	7000	(A1)
HEPTACHLOR	NG/L	1.0	3000	(A1)
HEPTACHLOR EPOXIDE	NG/L	1.0	3000	(A1)
HEXACHLOROCYCLOPENTADIENE	NG/L	5.0	206000	(D4)
LINDANE (GAMMA BHC)	NG/L	1.0	4000	(A1)
METHOXYCHLOR	NG/L	5.0	900000	(A1)
METOLACHLOR	NG/L	500.0	50000	(A2)
METRIBUZIN (SENCOR)	NG/L	100.0	80000	(A1)
MIREX	NG/L	5.0	N/A	
P,P-DDD	NG/L	5.0	30000	(A1)
O,P-DDT	NG/L	5.0	30000	(A1)
P,P-DDT	NG/L	5.0	30000	(A1)
P,P-DDE	NG/L	1.0	30000	(A1)
OXYCHLORDANE	NG/L	2.0	N/A	
PCB	NG/L	20.0	3000	(A2)
PROMETONE	NG/L	50.0	52500	(D3)
PROMETRYNE	NG/L	50.0	1000	(A2)
PROPAZINE	NG/L	50.0	700000	(D3)
SIMAZINE	NG/L	50.0	10000	(A2)
DESETHYL SIMAZINE	NG/L	200.0	10000	(A2)
TOXAPHENE	NG/L	500.0	5000	(A1)
PHENOLICS				
PHENOLICS (UNFILTERED REACTIVE)	UG/L	0.2	N/A	
SPECIFIC PESTICIDES				
2,4 D PROPIONIC ACID	NG/L	100.0	N/A	
2,4,5-TRICHLOROPHENOXY ACETIC ACID	NG/L	50.0	280000	(A1)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.0	100000	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID (2,4-DB)	NG/L	200.0	N/A	
2,4,5-TP (SILVEX)	NG/L	20.0	10000	(A1)
BUTYLATE (SUTAN)	NG/L	2000.0	245000	(D3)
CARBARYL (SEVIN)	NG/L	200.0	90000	(A1)
CARBOFURAN	NG/L	2000.0	90000	(A1)
CHLORPROPHAM (CIPC)	NG/L	2000.0	350000	(G)
CHLORPYRIFOS (DURSBAN)	NG/L	20.0	N/A	
DIALLATE	NG/L	2000.0	N/A	
DIAZINON	NG/L	20.0	20000	(A1)
DICAMBA	NG/L	50.0	120000	(A1)
DICHLOROVOS	NG/L	20.0	N/A	
EPTAM	NG/L	2000.0	N/A	
ETHION	NG/L	20.0	35000	(G)
IPC	NG/L	2000.0	N/A	
MALATHION	NG/L	20.0	190000	(A1)
METHYL PARATHION	NG/L	50.0	9000	(D3)
METHYLTRITHION	NG/L	20.0	N/A	
MEVINPHOS	NG/L	20.0	N/A	
PARATHION	NG/L	20.0	50000	(A1)
PHORATE (THIMET)	NG/L	20.0	2000	(A2)
PICHLORAM	NG/L	100.0	190000	(A2)
PROPOXUR (BAYGON)	NG/L	2000.0	140000	(D3)
RELDAN	NG/L	20.0	N/A	
RONNEL	NG/L	20.0	N/A	
VOLATILES				
1,1-DICHLOROETHANE	UG/L	0.10	N/A	
1,1-DICHLOROETHYLENE	UG/L	0.1[illegible]	7	(D1)
1,2-DICHLOROBENZENE	UG/L	0.05	200	(A1)
1,2-DICHLOROETHANE	UG/L	0.05	5	(A1)
1,2-DICHLOROPROPANE	UG/L	0.05	5	(D1)
1,3-DICHLOROBENZENE	UG/L	0.10	3750	(D3)
1,4-DICHLOROBENZENE	UG/L	0.10	5	(A1)
1,1,1-TRICHLOROETHANE	UG/L	0.02	200	(D1)
1,1,2-TRICHLOROETHANE	UG/L	0.05	0.6	(D4)
1,1,2,2-TETRACHLOROETHANE	UG/L	0.05	0.17	(D4)

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM 1991 AND 1992

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
BENZENE	UG/L	0.05	5	(A1)
BROMOFORM	UG/L	0.20	350	(A1+)
CARBON TETRACHLORIDE	UG/L	0.20	5	(A1)
CHLOROBENZENE	UG/L	0.10	1510	(D3)
CHLORODIBROMOMETHANE	UG/L	0.10	350	(A1+)
CHLOROFORM	UG/L	0.10	350	(A1+)
CIS 1,2-DICHLOROETHYLENE	UG/L	0.10	70	(D1)
DICHLOROBROMOMETHANE	UG/L	0.05	350	(A1+)
ETHYLENE DIBROMIDE	UG/L	0.05	50	(D1)
ETHYLBENZENE	UG/L	0.05	2.4	(A3)
M-XYLENE	UG/L	0.10	300	(A3*)
METHYLENE CHLORIDE	UG/L	0.50	50	(A1)
O-XYLENE	UG/L	0.05	300	(A3*)
P-XYLENE	UG/L	0.10	300	(A3*)
STYRENE	UG/L	0.05	100	(D1)
TETRACHLOROETHYLENE	UG/L	0.05	65	(A5)
TRANS 1,2-DICHLOROETHYLENE	UG/L	0.10	70	(D1)
TOLUENE	UG/L	0.05	24	(A3)
TOTAL TRIHALOMETHANES	UG/L	0.50	350	(A1)
TRICHLOROETHYLENE	UG/L	0.10	50	(A1)
VINYL CHLORIDE	UG/L	0.10	2	(D1)
RADIONUCLIDES				
TRITIUM	BQ/L	7.0	40000	(A1)
GROSS ALPHA COUNT	BQ/L	0.04	0.55#	(D1)
GROSS BETA COUNT	BQ/L	0.04	N/A	
COBALT 60	BQ/L	0.70	N/A	
CESIUM 134	BQ/L	0.70	N/A	
CESIUM 137	BQ/L	0.70	50	(A1)
IODINE 131	BQ/L	0.70	10	(A1)

Equal to 15.D Picocuries/litre

Appendix A

DRINKING WATER SURVEILLANCE PROGRAM
PROGRAM DESCRIPTION

The Drinking Water Surveillance Program (DWSP) for Ontario monitors drinking water quality at municipal water supply systems. The DWSP Database Management System provides a computerized drinking water quality information system for the supplies monitored. The objectives of the program are to provide:

- immediate, reliable, current information on drinking water quality;
- a flagging mechanism for guideline exceedance;
- a definition of contaminant levels and trends;
- a comprehensive background for remedial action;
- a framework for assessment of new contaminants; and
- an indication of treatment efficiency of plant processes.

PROGRAM

The DWSP officially began in April 1986 and is designed to eventually include all municipal water supplies in Ontario. In 1992, 109 systems were being monitored. Water supply locations have been prioritized for surveillance based primarily on criteria such as population density, probability of contamination and geographical location.

An ongoing assessment of future monitoring requirements at each location will be made. Monitoring will continue at the initial locations at an appropriate level and further locations will be phased into the program as resources permit.

A major goal of the program is to collect valid water quality data in context with plant operational characteristics at the time of sampling. As soon as sufficient data have been accumulated and analyzed, both the frequency of sampling and the range of parameters may be adjusted accordingly.

Assessments are carried out at all locations prior to initial sampling, in order to acquire complete plant process and distribution system details and to designate (and retrofit if necessary) all sampling systems and locations. This ensures that the sampled water is a reflection of the water itself.

Samples are taken of raw (ambient water) and treated water at the treatment plant and of consumer's tap water in the distribution system. In order to determine possible effects of distribution on water quality, both standing and free flow water in old and new sections of the distribution system are sampled. Sampling is carried out by operational personnel who have been trained in applicable procedures.

Comprehensive standardized procedures and field test kits are supplied to sampling personnel. This ensures that samples are taken and handled according to standard protocols and that field testing will supply reliable data. All field and laboratory analyses are carried out using "approved documented procedures". Most laboratory analyses are carried out by the Ministry of Environment and Energy (MOEE), Laboratory Services Branch. Radionuclides are analyzed by the Ministry of Labour.

DATA REPORTING MECHANISM

When the analytical results are transferred from the MOEE laboratory into the DWSP system, printouts of the completed analyses are sent to the MOEE District Officer, the appropriate operational staff and are also retained by the DWSP unit.

PROGRAM INPUTS AND OUTPUTS

There are four major inputs and four major outputs in the program.

Program Input - Plant and Distribution System Description

The system description includes plant specific non-analytical information acquired through a questionnaire and an initial plant visit. During the initial assessment of the plant and distribution system, questionnaire content is verified and missing information added. It is intended that all data be kept current with scheduled annual updates.

The Plant and Distribution System Description consists of the following seven components:

1. PROCESS COMPONENT INVENTORY
All physical and chemical processes to which the water is subjected, from the intake pipe to the consumers' tap (where possible), are documented. These include: process type, general description of physical structures, material types, sizes, and retention time for each process within the plant. The processes may be as simple as transmission or as complex as carbon adsorption.

2. TREATMENT CHEMICALS
Chemicals used in the treatment processes, their function, application point, supplier and brand-name are recorded. Chemical dosages applied on the day of sampling are recorded in DWSP.

3. PROCESS CONTROL MEASUREMENTS
Documentation of in-plant monitoring of process parameters (eg. turbidity, chlorine residuals, pH, aluminum residuals) including methods used, monitoring locations and frequency is contained in this section. Except for the recorded Field Data, in-plant monitoring results are not retained in DWSP but are retained by the water treatment plant personnel.

4. DESIGN FLOW AND RETENTION TIME
Hydraulic capacity, designed and actual, is noted here. Retention time (the time that a block of water is retained in the plant) is also noted. Maximum, minimum and average flow, as well as a record of the flow rate on the day of sampling, are recorded in DWSP.

5. DISTRIBUTION SYSTEM DESCRIPTION
This area includes the storage and transmission characteristics of the distribution system after the water leaves the plant.

6. SAMPLING SYSTEM

Each plant is assessed for its adequacy in terms of the sampling of bacteriological, organic and inorganic parameters. Prime considerations in the assessment and design of the sampling system are:

i/ the sample is an accurate representation of the actual water condition, eg. raw water has had no chemical treatment;

ii/ the water being sampled is not being modified by the sampling system;

iii/ the sample tap must be in a clean area of the plant, preferably a lab area; and

iv/ the sample lines must be organically inert (no plastic, ideally stainless steel).

It is imperative that the sampled water be a reflection not of the sampling system but of the water itself.

The sampling system documentation includes: origin of the water; date sampling was initiated; size, length and material type (intake, discharge and tap); pump characteristics (model, type, capacity); and flow rate.

7. PERSONNEL

This section contains the names, addresses and phone numbers of current plant management and operational staff, distribution system management and operational staff, Medical Officer of Health and appropriate MOEE personnel associated with the plant.

Program Input - Field Data

The second major input to DWSP is field data. Field data is collected at the plant and from the distribution system sites on the day of sampling. Field data consists of general operating conditions and the results of testing for field parameters. General operating conditions include chemicals used, dosages, flow and retention time on the day of sampling, as well as, monthly maximum, minimum and average flows. Field parameters include turbidity, chlorine residuals (free, combined and total), temperature and pH. These parameters are analyzed according to standardized DWSP protocols to allow for interplant comparison.

Program Input - Laboratory Analytical Data

The third major input to DWSP is Laboratory Analytical Data. Samples gathered from the raw, treated and distribution sampling sites are analyzed for the presence of approximately 180 parameters at a frequency of two to twelve times per year. Sixty-five percent of the parameters are organic. Parameters measured may have health or aesthetic implications when present in drinking water. Many of the parameters may be used in the treatment process or may be treatment by-products. Due to the nature of certain analytical instruments, parameters may be measured in a "scan" producing some results for parameters that are not on the DWSP priority list, but which may be of interest. The majority of parameters are measured on a routine basis. Those that are technically more difficult and/or costly to analyze, however, are done less frequently. These include Specific Pesticides and Chlorophenols.

Although the parameter list is extensive, additional parameters with the potential to cause health or aesthetic related problems may be added provided reliable analytical and sampling methods exist.

All laboratory generated data is derived from standardized, documented analytical protocols. The analytical method is an integral part of the data and as methods change, notation will be made and comparison data documented.

Program Input - Parameter Reference Information

The fourth major input to DWSP is Parameter Reference Information. This is a catalogue of information for each substance analyzed on DWSP. It includes parameter name and aliases, physical and chemical properties, basic toxicology, world-wide health limits, treatment methods and uses. The Parameter Reference Information is computerized and can be accessed through the Query function of the DWSP database. An example is shown in figure 1.

Program output - Query

All DWSP information is easily accessed through the Query function, therefore, anything from addresses of plant personnel to complete water quality information for a plant's water supply is instantly available. The DWSP computer system makes relatively complex inquiries manageable. A personal password allowing access into the DWSP query mode in all MOEE offices is being developed by the DWSP group.

Program Output - Action Alerts

Drinking Water quality in Ontario is evaluated against provincial objectives as outlined in the Ontario Drinking Water Objectives publication. Should the reported level of a substance in treated water exceed the Ontario Drinking Water Objective, an "Action Alert" requiring resampling and confirmation is issued. This assures that operational staff, health authorities and the public are notified as soon as possible of the confirmation of an exceedance and remedial action taken. This report supplies a history of the occurrence of past exceedances at the plant plus a historical summary on the parameter of concern.

In the absence of Ontario Drinking Water Objectives, guidelines/limits from other agencies are used. The Parameter Listing System, published by MOEE (ISBN 0-7729-4461-X), catalogues and keeps current guidelines for 650 parameters from agencies throughout the world. If these guidelines are exceeded, the results are flagged and evaluated by DWSP personnel. An "Action Alert" will be issued if warranted.

Program Output - Report Generation

Custom reports can be generated from DWSP to meet MOEE Regional needs and to respond to public requests.

Program Output - Annual Reports

It is the practice of DWSP to produce an annual report containing analytical data along with companion plant information.

FIG.1

PARAMETER REFERENCE INFORMATION

NAME:	BENZENE
CAS#:	71-43-2
MOLECULAR FORMULAE:	C_6H_6
DETECTION LIMIT:	(FOR METHOD POCODO) 0.05 μg/L
SYNONYMS:	BENZOL; BENZOLE; COAL NAPHTHA; CARBON OIL (27) CYCLOHEXATRIENE (41)
CHARACTERISTICS:	COLOURLESS TO LIGHT-YELLOW, MOBILE, NONPOLAR LIQUID, OF HIGHLY REFRACTIVE NATURE, AROMATIC ODOUR; VAPOURS BURN WITH SMOKING FLAME (30)
PROPERTIES:	SOLUBILITY IN WATER: 1780-1800 mg/L AT 25C (41) THRESHOLD ODOUR: 0.5 - 10 PPM IN WATER THRESHOLD TASTE: 0.5 mg/L IN WATER (39) ENVIRONMENTAL FATE: MAY BIOACCUMULATE IN LIVING ORGANISMS AND APPEARS TO ACCUMULATE IN ANIMAL TISSUES THAT EXHIBIT A HIGH LIPID CONTENT OR REPRESENT MAJOR METABOLIC SITES, SUCH AS LIVER OR BRAIN; SMALL QUANTITIES EVAPORATE FROM SOILS OR ARE DEGRADED RATHER QUICKLY (80)
SOURCES:	COMMERCIAL: PETROLEUM REFINING; SOLVENT RECOVERY; COAL TAR DISTILLATION (39); FOOD PROCESSING AND TANNING INDUSTRIES; COMBUSTION OF CAR EXHAUST. ENVIRONMENTAL: POSSIBLE SOURCE IS RUNOFF.
USES:	DETERGENTS; NYLON; INTERMEDIATE IN PRODUCTION OF OTHER COMPOUNDS, SUCH AS PESTICIDES; SOLVENT FOR EXTRACTION AND RECTIFICATION IN RUBBER INDUSTRY; DEGREASING AND CLEANSING AGENT; GASOLINE.
REMOVAL:	THE FOLLOWING PROCESSES HAVE BEEN SUCCESSFUL IN REMOVING BENZENE FROM WASTEWATER: GAC ADSORPTION, PRECIPITATION WITH ALUM AND SUBSEQUENT REMOVAL VIA SEDIMENTATION, COAGULATION AND FLOCCULATION, SOLVENT EXTRACTION, OXIDATION
ADDITIONAL PROPERTIES:	MOLECULAR WEIGHT: 78.12 MELTING POINT: 5.5°C (27) BOILING POINT: 80.1°C (27) SPECIFIC GRAVITY: 0.8790 AT 20°C (27) VAPOUR PRESSURE: 100 MM AT 26.1°C (27) HENRY'S LAW CONSTANT: 0.00555 ATM-M3/MOLE (41) LOG OCT./WATER PARTITON COEFFICIENT: 1.95 TO 2.13 (39) CARBON ADSORPTION: K=1.0; 1/N=1.6; R=0.97; PH=5.3 (41) SEDIMENT/WATER PARTITION COEFFICIENT: NO DATA

DWSP SAMPLING GUIDELINE

i) Raw and Treated at Plant

General Chemistry	-500 mL plastic bottle (PET 500) -rinse bottle and cap with sample water three times -fill to 2 cm from top
Bacteriological	-220 mL plastic bottle with white seal on cap -do <u>not</u> rinse bottle, preservative has been added -avoid touching bottle neck or inside of cap -fill to top of red label as marked
Metals	-500 mL plastic bottle (PET 500) -rinse bottle and cap three times -fill to 2 cm from top -add 10 drops nitric acid (HNO_3) (**Caution:** HNO_3 is corrosive)
Volatiles (duplicates) (OPOPUP)	-45 mL glass vial with septum (teflon side must be in contact with sample) -do <u>not</u> rinse bottle -fill bottle completely without bubbles
Organics (OWOC),(OWTRI)	-1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top
Specific Pesticides (OWCP),(PEOP),(PECAR)	-as per Organics -three extra bottles must be filled
Polyaromatic hydrocarbons (OAPAHX)	-1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top -add 25 drops of sodium thiosulphate
Cyanide (Treated only)	-500 mL plastic bottle (PET 500) -rinse bottle and cap three times -fill to 2 cm from top -add 10 drops sodium hydroxide (NaOH) (**Caution:** NaOH is corrosive)
Mercury	-250 mL glass bottle -rinse bottle and cap three times -fill to top of label -add 20 drops each nitric acid (HNO_3) and potassium dichromate ($K_2Cr_2O_7$) (**Caution:** HNO_3&$K_2Cr_2O_7$ are corrosive)

Phenols	-250 mL glass bottle -do <u>not</u> rinse bottle, preservative has been added -fill to top of label
Radionuclides (as scheduled)	-4 L plastic jug -do <u>not</u> rinse, carrier added -fill to 5 cm from top
Organic Characterization (GC/MS - once per year) (PBVOL),(PBEXT)	-1 L amber glass bottle; instructions as per organic -250 mL glass bottle -do <u>not</u> rinse bottle -fill completely without bubbles

<u>Steps:</u>

1. Let sampling water tap run for an adequate time to clear the sample line.

2. Record time of day on submission sheet.

3. Record temperature on submission sheet.

4. Fill up all bottles as per instructions.

5. Record chlorine residuals (free, combined and total for treated water only), turbidity and pH on submission sheet.

6. No smoking in area of sample location.

ii) Distribution Samples (standing water)

General Chemistry	-500 mL plastic bottle (PET 500) -rinse bottle and cap with sample water three times -fill to 2 cm from top
Metals	-500 mL plastic bottle (PET 500) -rinse bottle and cap three times -fill to 2 cm from top -add 10 drops nitric acid (HNO_3) **(Caution: HNO_3 is corrosive)**

<u>Steps:</u>

1. Record time of day on submission sheet.

2. Place bucket under tap and open cold water.

3. Fill to predetermined volume.

4. After mixing the water, record the temperature on the submission sheet.

5. Fill general chemistry and metals bottles.

6. Record chlorine residuals (free, combined and total), turbidity and pH on submission sheet.

iii) Distribution Samples (free flow)

General Chemistry	-500 mL plastic bottle (PET 500) -rinse bottle and cap with sample water three times -fill to 2 cm from top
Bacteriological	-250 mL plastic bottle with white seal on cap -do <u>not</u> rinse bottle, preservative has been added -avoid touching bottle neck or inside of cap -fill to top of red label as marked
Metals	-500 mL plastic bottle (PET 500) -rinse bottle and cap three times -fill to 2 cm from top -add 10 drops nitric acid HNO_3 (**Caution:** HNO_3 is corrosive)
Volatiles (duplicate) (OPOPUP)	-45 mL glass vial with septum (teflon side must be in contact with sample) -do <u>not</u> rinse bottle, preservative has been added -fill bottle completely without bubbles
Organics (OWOC)	-1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top
Polyaromatic Hydrocarbons (OAPAHX)	-1 L amber glass bottle per scan -do <u>not</u> rinse bottle -fill to 2 cm from top -add 25 drops of sodium thiosulphate

<u>Steps:</u>

1. Record time of day on submission sheet.

2. Let cold water flow for five minutes.

3. Record temperature on submission sheet.

4. Fill all bottles as per instructions.

5. Record chlorine residuals (free, combined and total), turbidity and pH on submission sheet.